CAL. GAZE.

JAN. — JUNE.

1889.

REGISTERED No. 29.

No. 3 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JANUARY 16, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

WITHDRAWAL OF THE INLAND EMIGRATION ACT FROM THE DISTRICTS OF CHITTAGONG AND THE CHITTAGONG HILL TRACTS.

GENERAL DEPARTMENT - INLAND EMIGRATION.

Calcutta, the 8th January 1889.

RESOLUTION.

READ—

The following correspondence on the subject of the proposed withdrawal of the districts of Chittagong and the Chittagong Hill Tracts from the operation of the Inland Emigration Act No. I of 1882:—

- Letter from the Commissioner of the Chittagong Division, No. 767GM—IX-5, dated 13th August 1888.
- Letter to the Superintendent and Remembrancer of Legal Affairs, No. 95T—G, dated 18th October 1888.
- Letter from the Superintendent and Remembrancer of Legal Affairs, dated 31st October 1888.
- Letter from the Superintendent and Remembrancer of Legal Affairs, No. 1098, dated 9th November 1888.
- Letter to the Government of India, Revenue and Agricultural Department, No. 186, dated 3rd December 1888.
- Letter from the Government of India, Revenue and Agricultural Department No. 284—26-24E., dated 21st December 1888.

The special procedure provided by Act I of 1882 for enforcing labour contracts in certain specified areas is in force, as far as the Lower Provinces are concerned, only in the districts of Chittagong and the Chittagong Hill Tracts. The Commissioner of Chittagong has frequently urged their withdrawal as not required in his division; and in reviewing the departmental report for the year 1885, Sir Rivers Thompson so far accepted this view as to express a hope that the time was approaching when, considering the falling off in the number of labourers enrolled under the Act, it would be possible to adopt the course recommended. As the results of the following year showed a further decline, Sir Steuart Bayley called for a special report on the subject, which the Commissioner has since submitted. In this communication it is stated that such planters as had been consulted are unanimous in considering that the Act is not required, the ordinary law being sufficient to guard the interests both of employers and employed. This is the view of the District Officers also, and the Commissioner gives his own opinion as follows :—

"It is not adapted to a district where labour is as plentiful as it is here, and where there is, now at least, no objection to taking work on a garden. So far as I have seen, the Act here is entirely against the interests of the cooly and of the better class of planters, while it is favourable to the worst class of planters only. Happily this last class is so small that it may be said to be non-existent. I strongly recommend, therefore, that under the provisions of section 4, the Inland Emigration Act be withdrawn entirely from the districts of Chittagong and the Chittagong Hill Tracts."

2. In deciding whether the recommendation thus forcibly expressed by the local officers should be accepted, the Lieutenant-Governor has to give due weight to the consideration that the Government of India has repeatedly indicated for adoption the policy of dispensing with special legislation on the subject of labour contracts wherever it is possible to do so, leaving the matter to the operation of the ordinary law of the country. "Such legislation," the Secretary of State observed in a despatch No. 102, dated 4th November 1886, "should be considered as temporary only, and clearly ought not to be maintained longer than is absolutely necessary for the protection of both the classes concerned." Viewed from this standpoint, it seems clear that the retention of the system in the two districts referred to scarcely admits of defence. In the Hill Tracts the Act cannot be said to be necessary, as it is not now resorted to even in the case of a single labourer. In Chittagong the number of labourers placed under contract according to the provisions of the Act was never large, and has rapidly decreased in recent years: it was 915 in 1884 and had fallen to 433 in 1887, with the prospect of a further decrease in the immediate future. There is nothing in the condition of the tea industry in Chittagong to suggest that it should be placed under an exceptional system, different from that prevailing in the rest of the province, and particularly in the districts of Darjeeling and Julpigoree, which are now the chief seats of the cultivation of the tea plant. Chittagong is more densely populated than other tea districts in Bengal, local labour is more generally used, and the importation of coolies is resorted to only on a very minute scale. The maintenance of the statutory contract system cannot, therefore, be looked upon as really a necessity in that district, and there is even reason to believe that, so far as it has any effect at all, it is rather a hindrance than an aid to the progress of tea cultivation. It certainly has not effected the object which the late Commissioner of Chittagong had in view when recommending its introduction in the year 1877—that of modifying the system of task work in the interest of the labourer.

3. The Inland Emigration Act leaves to the Local Government, with the previous consent of the Government of India, the power of altering from time to time the area within which the law is in force. The Lieutenant-Governor considers that this power should now be exercised, and accordingly issues the appended notification with the approval of the Governor-General in Council. The Superintendent and Remembrancer of Legal Affairs to Government has advised that this measure will not affect existing contracts otherwise than by putting an end to the exceptional procedure by which they are at present enforced, leaving them in operation as ordinary engagements within the cognizance of the civil courts.

ORDER—Ordered that a copy of this Resolution and of the notification be forwarded to the Commissioner of the Chittagong Division, with reference to the correspondence ending with his letter No. $\frac{7670 G.M.}{IX-5}$, dated 13th August 1888, for information, and for favour of communication to the Inspectors of Labourers and Managers of tea-gardens.

Ordered also, that a copy of the Resolution and of the notification be forwarded to the Superintendent of Emigration, Calcutta, for information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Dated Calcutta, the 8th January 1889.

NOTIFICATION—By the Government of Bengal, General Department.

UNDER section 4 of the Inland Emigration Act I of 1882, the Lieutenant-Governor of Bengal, with the previous sanction of the Governor-General in Council, is pleased to declare that, on and from the 1st April 1889, the labour-districts of Chittagong and the Chittagong Hill Tracts shall cease to be subject to the provisions of the said Act by which they are declared to be labour-districts, and to all the provisions of the Act applicable only to labour-districts.

RESOLUTION ON THE REPORT ON PUBLIC INSTRUCTION IN BENGAL FOR THE YEAR 1887-88.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 11*th January* 1889.

RESOLUTION.

READ—

The General Report on Public Instruction in Bengal for 1887-88.

Delay in submitting the report.

This report is exceptionally complete and clear, but the Lieutenant-Governor regrets that it is necessary in reviewing it to notice in the first instance the delay which has occurred in its preparation. The date fixed by Government as the latest for the submission of the annual reports of the Director of Public Instruction was originally the 1st of August, and Sir Alfred Croft proposed during the year that it should be postponed to the 1st of October. The present report was not, however, received until the 17th December, and no explanation has been given of the great delay thus indicated. The Director's attention will be drawn again to this important subject, and he will be requested to make arrangements which will secure the submission of the next annual report before the 1st October, 1889, or on that day at latest.

Controlling agencies.

2. The most important event in the educational history of the year under this head was the transfer of the control of primary education from District Magistrates, acting under the advice of Local Committees, to District Boards. On this subject the Director observes—

As to the general character of the work done by the District and Local Boards, it is too early yet to form any decided opinion It was natural to suppose that at the outset they would take no very strong or independent line, but simply conform to the traditions and practices of the Department to whose duties they succeeded. It appears, however, that the Boards have not followed a uniform policy in educational matters. The Assistant Inspector of the Bhagulpore Division writes of them :—" During the short time they have been at work, there has been not a single instance of any friction between them and the Department ; the suggestions and recommendations of the inspecting officers have been always duly considered and adopted, and the Inspector of Schools has been often consulted in important matters." Still, some inconvenience has been felt from delay in the despatch of business by the Boards. In the neighbouring division of Patna a less confident note is heard. In the districts of Patna and Sarun, there have been no particular changes, and the working of the Board has been satisfactory. Of Gya it is said that " the Board has done nothing in connection with education that would look like its own work." But of Shahabad—" it is a fact that the Shahabad District Board has not worked smoothly with the Department."

In the few differences that I have had with District Boards, I have found that on a candid representation of the facts the causes of difference have in every case disappeared. When more serious difficulties have arisen, and some form of arrangement or compromise was desirable, it has been readily accepted When the Boards were, one after another, coming into existence and assuming charge of their duties, I sometimes found it necessary at the outset to trench upon the province of the Boards, and to take action which I had ceased to have the right to take, in order to avoid obstructive delay and to hand over the business of administration as a going concern in working order. In no case has a Board finally refused to confirm the action taken. On a general review of the causes of friction that have arisen here and there, I should be disposed to say that while Boards are grateful for advice and suggestions when asked for, and even when not asked for if given with an obviously helpful purpose, they resent interference with the duties that have been entrusted to them. In saying this, I do not wish to utter one word of complaint against any departmental officer. It is only natural that officers who have hitherto had the work of education in their own hands should

still take a keen interest in its progress, and should seek to avert any lapse from the standard to which they have been accustomed, even though such lapses are inevitable incidents of a change of system. But it is no less necessary for departmental officers to remember that District Boards have rights secured to them under the Act, and that any attempt to limit those rights in the interests of education will certainly be resisted. It may be assumed that officers of the Department know for the present a good deal more about school management than a District Board knows. They can best utilise their knowledge in the interests of education by adopting towards the Board such an attitude of friendly vigilance as will make it clear that, while always ready to render help when help is desired or is necessary, it is equally their wish that the Board should learn how to do for itself, and to do well, the work which has been entrusted to its hands. I am glad to be able to state that this is the attitude which officers of the Department have almost uniformly taken up.

The view taken by the Director appears very judicious, and its expressions calculated to conduce to the harmonious working of the department. It may be added that some of the officers whose views are quoted seem to have an erroneous conception of the system which has been superseded by the management of Boards. Primary education since its introduction has never been placed under the control of departmental Inspectors, but of Magistrates and local Committees. In one of the districts referred to as administered by a Board in an independent spirit, it is within the Lieutenant-Governor's knowledge that this is nothing new, the former Education Committee having shown even more decided indications of a determination to promote the cause of popular education in its own way.

3. Two vacancies which occurred during the year in the superior inspecting staff were not filled up, the retrenchment being made in accordance with a recommendation of the Finance Committee, provisionally adopted by this Government, that the number of such officers should be reduced to nine, so as to correspond with that of Divisional Commissioners. The officers whose work has in this manner been increased by enlarging their jurisdiction report unfavourably of the arrangement, as was perhaps to have been expected. But, apart from obvious considerations of economy, it seems desirable to make the jurisdiction of Educational officers coincide with the administrative divisions of the country, and nothing has occurred during the year to alter the Lieutenant-Governor's opinion as to the expediency of the retrenchment proposed. The Director has very properly noticed the degree of activity shown by different inspecting officers, commending those who have done best, and dealing in different ways with those who have failed Such disciplinary action is particularly necessary, since the travelling allowance drawn for journeys of less than 20 miles has been curtailed on financial grounds, and the Director plainly indicates that tours have often been conducted inefficiently in order to secure the higher rate now given in the case of long journeys, or, as it is otherwise put, to avoid loss. The amendment of the rule which has been the occasion of this difficulty is now under consideration, a reference having been made to the Government of India; but, pending the issue of orders on this subject, the defect noticed by the Director may be remedied by calling upon Sub-Inspectors to submit beforehand programmes of their tours, which will then be regulated by their immediate superiors in the best interests of the schools to be visited. The Director will be requested to report upon the above suggestion.

University Education.

4. The history of higher instruction during the year is marked by three striking features—the foundation of new colleges, the increased attendance of pupils, and the development of private enterprise, which at first supplemented, and now rivals the efforts of the State in promoting this form of education. The new colleges are four in number—the Bangabasi, founded by Mr. G. C. Bose, M.A., F.C.S., a returned Agricultural Scholar, which had 53 students at the close of the year; the Roberts' Memorial College, with 3 students only; the Tej Narain Jubilee College at Bhagulpore, with 17 students; and the collegiate classes added by the late Baboo Joy Kissen Mookerjea to the Utterpara School, with 29 students. All these are private institutions, founded and kept up without direct aid from the State, and their establishment raises the number of

colleges in Bengal to 33, of which only one-third are maintained by Government. The increase in the attendance is shown in the following statement :—

COLLEGES—GENERAL.	NUMBER ON THE ROLLS AT THE END OF THE YEAR.				
	1884.	1885.	1886.	1887.	1888.
GOVERNMENT—					
First-grade Colleges.					
Presidency College	342	204	180	258	333
Hooghly "	130	141	143	104	156
Dacca "	246	149	131	193	250
Krishnagar " ... —	53	43	55	51	70
Patna "	178	174	204	189	270
Ravenshaw " Cuttack	32	29	38	52	60
Rajshahye "	81	57	44	78	110
Bethune School (College classes)	5	6	5	4	6
Second-grade Colleges.					
Sanskrit College	56	52	48	54	60
Calcutta Madrassa	20	15	20	15	23
Chittagong College	22	22	26	39	45
Total ...	1,165	892	894	1,037	1,383
MUNICIPAL—					
Midnapore College	19	23	21	24	42
AIDED—					
General Assembly's College, Calcutta ..	165	274	304	342	415
Free Church " " ..	272	289	273	202	203
St. Xavier's " " ..	170	198	206	160	189
London Mission " Bhowanipore ...	59	70	64	61	83
Doveton " Calcutta ..	47	46	25	16	16
St. Paul's School, Darjeeling (College classes)	......	......	3	5	5
Narail Victoria College	......	......	......	9	22
Uttarpara College	......	......	......	......	29
Total ..	713	877	875	795	962
UNAIDED—					
Metropolitan Institution ... — ...	500	506	556	590	837
City College	175	185	174	232	269
La Martinière " Calcutta ...	26	4	4	5	6
Albert "	35	34	37	55	111
Ripon "	65	82	149	188	274
Maharajah's " Burdwan ...	101	97	142	136	223
Jagannath " Dacca ...	......	48	112	129	245
Berhampore "	27	31	34	24	54
Bishop's " Calcutta ...	......	......	......	......	10
Tej Narayan Jubilee " Bhagulpore ...	......	......	......	......	17
Bangabasi "	......	......	......	......	53
Roberts' Memorial " Calcutta ..	......	......	......	......	3
Doveton Institution for Young Ladies (College classes).	......	......	......	......	5
Total ...	929	987	1,208	1,359	2,107
GRAND TOTAL ...	2,826	2,779	2,998	3,215	4,494

Some annual addition to the number of students is to be expected as the natural result of the gradual progress of the educated classes in Bengal. The fact that the increase was unusually large this year is, as the Director remarks, explained by the results of the Entrance examination of 1887, at which 2,409 competitors were successful, or 69 per cent. of the candidates, against 913, or 29 per cent. in the previous year; and it is understood that this success was itself due to an alteration in the system of examination designed to facilitate admission to the University, the number of marks required for success being reduced from 33 to 30 per cent. in English, and from 33 to 25 per cent. in the second language and mathematics, while the aggregate minimum of 33 per cent. was not insisted on. The development of private enterprise, referred to above, as the third feature of college administration during the year, is illustrated by the fact that the increase has been greatest in the unaided colleges, both

absolutely and also in proportion to their previous attendance. With the figures showing the numerical strength of the several classes of institutions, the following statement should be considered, as it indicates their efficiency, ascertained by the only test readily applicable, that of success at public examinations—

Class of College.	Number of students.	Number of students passed at examinations in 1887-88.				
		F. A.	F. A. Scholarship.	B. A.	B. A. Honours.	M. A.
State	1,383	183	28	68	43	27
Private	3,111	287	23	152	42	13

It will be seen that the Government colleges, with reference to the number of their pupils, obtained more than their share of degrees of all kinds, and that the proportion in their favour was larger as the examinations progressed in difficulty. This is most marked in the M. A. course, and is there entirely due to the superior instruction given in the Presidency College, a most useful and necessary institution, which maintains by its example, as well as by direct support, the standard of education in the province. The Director's observations on this subject are in entire accordance with the views entertained by Government. He writes: "The Presidency College, with its high fee of Rs. 12 a month, has nearly doubled its numbers of two years back; and indeed in July, 1888, four months after the close of the year, the number on its rolls exceeded 500, a greater strength than it has ever before known. The demands made by the various courses of the University upon a limited educational staff have much increased of late years; and if, in accordance with the present policy, the strength of the Presidency College professoriate be maintained at such a level as to meet all requirements, the foregoing figures show that students will flock to its classrooms in such numbers as to more than repay the additional cost involved. The Presidency College must maintain its position among the colleges of Bengal as that in which the best and most varied education is given, realising as far as possible the idea of a 'teaching University.' That end must be secured even though, in order to attain it, we have to weaken the staff of some of the less important Government colleges in the province. Moreover, the rapid up-springing of private colleges throughout Bengal affords a clear proof that collegiate education to a moderate standard no longer demands the sustaining arm of Government as the necessary condition of its existence; and the policy to which I have adverted will render the gradual transition from Government control to private management a natural and easy process of development." The Presidency College is also the principal institution in which scientific knowledge is fostered, a very important consideration, as it appears that the science course is losing its popularity, and that higher education in Bengal is taking a character too exclusively literary. It has long been the policy of Government to give a practical bent to instruction, and yet, whether from the effect of the system on which University examinations are conducted, or owing to the predilections of the students themselves, the actual tendency is in the contrary direction. It is stated that of 51 senior scholars elected in 1888, only 21 chose the science course, which in former years was adopted by the great majority, and only 78 candidates passed by that standard, against 245 by the literary course. Even in the minor Government Colleges, where until lately the science course only was taught, it is now to a great extent superseded by the more popular form of instruction. The Krishnager Municipality was asked during the year to take over the Government College at that station, with a grant-in-aid, and the offer was declined. The Lieutenant-Governor can hardly view with regret the delay which has occurred in giving full effect to the policy recommended by the Education Commission, that of the gradual and cautious withdrawal of the State from the direct management of the minor colleges, as private institutions become year by year more equal to the task of conducting collegiate instruction. It is, however, well that those interested in higher education should understand that the policy in question has been accepted, and that the work of carrying it out, of which a beginning has been made in the case of the Berhampore and Midnapore Colleges, will eventually be completed.

Secondary Education.

5. The progress of secondary education during the year, as indicated by the multiplication of schools and the increased attendance of pupils, has been substantial and satisfactory, though it has not been as great as that made in collegiate instructions.

The following statement defines its extent :—

Class of Schools.		1886-87.		1887-88.	
		Schools.	Pupils.	Schools.	Pupils.
High English	... ...	272	61,227	292	67,430
Middle "	... ...	718	51,134	745	54,651
" Vernacular	... ...	1,157	64,478	1,189	67,022
Total	...	2,147	176,839	2,226	189,103

The expenditure of Government under this head was Rs. 5,17,235 in 1886-87, and increased in 1887-88 by the sum of Rs. 16,057. The Director notices that applications for new grants have been accumulating for the last two or three years, and observes that it is much to be wished that Government were in a position to afford more liberal aid. This is doubtless desirable, but the fulfilment of the wish is very improbable, considering not only existing financial conditions, but also the more urgent claims of primary and technical education. Under the circumstances, it is necessary to draw attention to the rule on the subject of grants-in-aid, quoted in the margin, which was framed to prevent existing grants from becoming permanent, and so preventing the concession of new grants in rising localities. It is not to be supposed that Government will be able to maintain all old grants-in-aid indefinitely, and at the same time to make new allowances from year to year.

Grants will be sanctioned ordinarily for a term of three years; but the Inspector may at any time during its currency recommend the revision of any grant. A grant should ordinarily be reduced on renewal, when this can be done without serious loss of efficiency. In this way money will, from time to time, be set free, and the Department will be able to aid new schools even though the grant-in-aid allotment remains stationary. Notice of any proposed reduction shall in all cases be given to the managers, who shall be allowed an opportunity of stating any objection that they may have to the reduction.

6. It is chiefly in connection with schools of the secondary class that the question of moral training and the maintenance of due discipline occurs. Under this head the Director observes—

"The question of school discipline continues to occupy the attention of the higher officers of the Department, and the subject has been discussed at length in a report recently submitted to Government. A school mainly dependent for support on the fees paid by its pupils is at times compelled to tolerate breaches of discipline which a well-endowed institution can punish without fear. In Bengal the number of educational institutions of really independent position is by no means large. The admittedly superior discipline of a Government or of a missionary school is justly attributed to its solvency."

By way of diminishing the evil noticed, he suggests that the Calcutta University should refuse to recognise any school until it has been two years in existence, and until the managers have supplied full particulars of the establishment and accommodation to be provided. Such a measure might do some small good; but as the only effect of the non-recognition of a school by the University is that its candidates at the Entrance Examination are entered as private students, no great result can be expected. The Lieutenant-Governor will be glad to receive in future reports a fuller account of the discipline and moral training enforced in public schools. The importance of the subject is undeniable, but, in the absence of provision for periodical notice, it may frequently be overlooked

Primary education.

7. There has also been some slight progress in the department of primary education, the number of schools having increased from 48,483 in 1886-87 to 48,621 in 1887-88, the number of pupils from 1,080,085 to 1,103,422; but here the gain in numbers is comparatively small, and does not compensate for a loss which occurred in 1885-86. Practically, primary education in Bengal has reached a stationary state, and such variations as occur from year to year in the numbers are due rather to alterations in the system of registration than to any real advance or retrogression. The Provincial Government has not in recent years been able to make any increase in the assignment under this head, and there is not, as in the case of English education, a spontaneous tendency to the spread of elementary instruction, irrespective of Government assistance, beyond the classes which it at present reaches. With regard to the point which has hitherto been attained

in the education of the people generally, the Director of Public Instruction writes—

"The population of Bengal, excluding Cooch Behar, Hill Tipperah, and the Tributary States of Chota Nagpore, of which the schools are not included in our returns, amounted by the last census to 68,160,598, of whom 33,917,217 were males, and 34,243,381 were females. Reckoned at the usual proportion of 15 per cent., the number of male children of school-going age would be 5,087,582, and the number of female children 5,136,507. Of the scholars in our returns, 1,362,119 are boys and 90,826 are girls. Hence, of all boys of a school-going age over one in four is at school; of girls, 1 in 56. It has recently, however, been argued that 20 per cent. more nearly represents the proportion of children of school-going age. As the number of towns and villages in Bengal is close upon 260,000, it appears that there is one school to every four villages."

The estimate that one boy in every four is at school indicates how much remains to be done, as it implies that three-fourths of the male population have not as yet been touched by our educational system: and there is reason to believe that the estimate itself is sanguine. If the school-going age be taken as from five to fifteen the proportion of children which it includes is not 15 or even 20, but 26·93 per cent. The population must have increased since the census of 1881, and there is reason to believe that the figures given, which are taken from the return of those on the rolls at the close of the year, include many children who never attend or never learn. Out of more than 1,100,000 pupils registered, only 330,921 were examined under the system of payment by results, of whom 199,880 were passed. The census report showed only one male in ten as able to read and write. The Lieutenant-Governor regrets the depletion of Provincial finances on no account more strongly than because it prevents him, at least for the present, from carrying out the recommendations of the Education Commission in regard to primary education, which included a considerable increase in the annual expenditure.

8. The total expenditure from Provincial and District Funds on primary education during the year was Rs. 6,82,089, against Rs. 7,36,243 in 1886-87, the decrease of Rs. 54,154 being apparently due to delay in payments, which caused large sums due in 1887-88 to fall over into the following year. There was certainly no desire on the part of Government to make the transfer of these schools to District Boards an opportunity for diminishing the grant, which was founded on the actual expenditure of 1885-86. The Director observes that "the total amount contributed by municipalities to the support of primary schools was Rs. 16,355, varying from Rs. 7,805 in the Presidency Division, Rs. 2,815 in Patna, and Rs. 1,968 in Burdwan, to smaller sums in other divisions. In the 24-Pergunnahs the municipal contributions fell off by Rs. 1,182. The new Municipal Act for Calcutta contains a section empowering the Commissioners to spend money on primary and technical schools." The Lieutenant-Governor notices with approval these contributions from municipal resources, considering the importance of popular education to be such that it has a fair claim to aid, even from an income on which there are numerous and urgent demands. The mofussil municipalities benefited at the expense of provincial funds to the extent of over three lakhs of rupees a year, when the police charges in urban areas were assumed by Government from the beginning of the year 1882, and it was then assumed that a part of the surplus thus created would be devoted to education.

9. The following statement shows the manner in which the available funds were utilised in the different divisions:—

Divisions.	Schools.	Pupils.	Expenditure.	Cost per school in rupees.	Cost per pupil in annas.
			Rs.		
Presidency	4,284	125,460	82,268	19 2	10·4
Calcutta	165	7,060	7,700	46 6	17·4
Burdwan	8,338	210,549	1,01,485	12·1	7·7
Rajshahye	2,501	60,514	74,034	29·6	19·5
Dacca	4,734	119,636	86,154	18·2	11·5
Chittagong	4,469	103,662	63,481	14·2	9 7
Patna	5,546	116,101	84,711	15·3	11·7
Bhagulpore	3,211	68,319	66,073	20·5	15·4
Chota Nagpore	1,423	42,777	52,425	36·8	19 8
Orissa	4,002	89,312	61,908	15·4	11·0
Orissa Tributary Mehals ...	89	1,274	1,850	20 7	23 2

The amount for expenditure being so limited in comparison with the population to be educated, it is of the utmost importance that the method should be adopted which produces the greatest effect at the smallest cost. Experience has shown that this system is for Bengal what is known as that of payment by results, as distinguished from the grant of fixed stipends to teachers, and the rules made for the guidance of District Boards recognise no other as permissible. These instructions appear to have been generally observed, except in the district of Rajshahye, as to which the Director states that the Board have during the past twelve months raised the cost of each school from Rs. 16·5 to Rs. 56·3 a year by the adoption of a system of stipends all round, in substitution of a mixed system of stipends and rewards. The number of schools in Rajshahye has at the same time been reduced from 578 to 291, that of pupils from 11,901 to 7,490. The Director was informed in December last that the change thus made was inconsistent with the rules, and he will now be asked to report what action has since been taken to place the administration of the grant in Rajshahye on a proper footing. A stipendiary school costs five or six times as much as one conducted on the principle of payment by results, and a general reversion to the former principle could only be interpreted, under present financial circumstances, as the abandonment of the attempt to give an elementary education to any considerable proportion of the population. In the 24-Pergunnahs, Moorshedabad, Midnapore, Hooghly, Howrah, the regulation districts of Chittagong, Shahabad, Sarun, Purneah, and Cuttack, the average cost of schools to Government has been kept below ten rupees a year. This economy can only have been obtained by a careful and intelligent adoption of small means to a great end, in particular by utilising to the utmost all indigenous methods and institutions. It is believed that results not dissimilar might be produced in some other districts, and the subject needs the most careful consideration on the part of the Educational authorities.

Special instruction.

10. There are in Bengal 37 institutions for imparting special instructions in some profession, art, or industry, as distinguished from the general education more commonly sought. Some details as to their strength are given below:—

	Number of institutions.	Number of pupils on the rolls on the 31st March 1888.	Average monthly roll number.	Expenditure— From public funds: From Provincial revenues.	From Municipal funds.	From private funds.	Total.	Average annual cost of educating each pupil: Cost to public funds.	Total cost.
I.—Law.				Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Government Law Schools ...	6	125	140	......	.....	9,517	9,517	...	67 15 7
Unaided Law Schools ...	4	1,047	959	..	....	18,104	18,104	....	18 14 9
Total Law Schools ...	10	1,172	1,099	...	....	27,621	27,621	...	25 2 1
II.—Medicine.									
Medical College, Calcutta ...	1	160	194	1,61,502	.....	8,785	1,70,287	852 7 9	877 8 1
Government Medical Schools	4	589	570	63,802	....	15,803	79,605	111 14 11	139 10 6
Unaided Medical Schools.									
Dacca Homœopathic Schools	2	138	115	......	.....	355	355	......	3 1 4
Total Medical Schools...	7	887	879	2,25,304	......	24,893	2,50,197	256 5 1	284 10 2
III.—Engineering.									
Civil Engineering College, Seebpore	1	164	156	70,775	......	6,646	77,421	453 10 11	496 4 7
Government Surveying Schools	3	259	254	7,348	.....	2,839	10,187	28 14 10	40 1 8
Total Engineering Schools	4	423	410	78,123	......	9,485	87,608	190 8 8	213 10 9
IV.—Art and Industry.									
Government School of Art ...	1	158	148	24,978	......	3,168	28,146	168 12 3	190 2 9
Government Industrial Schools.									
Ranchi Industrial School ...	1	41	25	1,200	.....	600	1,800	34 4 6	51 6 10
Aided Industrial Schools ...	7	307	204	1,195	511	4,467	6,173	5 12 10	21 0 0
Unaided Industrial Schools ...	5	171	152	......	....	761	761	......	5 0 1
Total Art Schools ..	14	677	629	27,373	511	8,996	36,880	44 5 3	58 10 1

It will be observed that the law students are far the most numerous, that, excepting a small and decreasing minority, not constituting a ninth of the whole, they read in unaided schools, and that they cost the public nothing even when they attend Government schools. These facts and the increase in the number of law students illustrate the popularity of the profession, and its profitable nature. The study of medicine on the other hand, at least on the ordinary lines, is confined to Government institutions, and in its higher department is proportionately very expensive to the State, each student costing Government Rs. 877-8-1 a year, a sum far in excess of that reported in regard to any other form of instruction. The number of pupils in the Medical College has diminished from 172 last year to 160, though there has been an increase of ten in the free female class. On the other hand, the schools where instruction is given in the vernacular are advancing in number and reputation. There has been an increased attendance in the Engineering College, Seebpore, but it is marked as an unfavourable sign that only one student from that institution passed for the B. E degree. The condition of this most important school has formed the subject of enquiry during the year, with special reference to the small success which has attended it at the University examinations, and the report of the Committee appointed to investigate the subject has been very recently received by the Director of Public Instruction. The survey schools have done well during the year, and their pupils readily find employment. The number of pupils in the Government School of Art increased from 152 to 158. As to this valuable institution, which is somewhat of the nature of a technical college, the Director writes—

"In July, 1887, a revised course of instruction was framed for each class. Arrangements have also been made to hold annual examinations in free-hand drawing, model-drawing geometry, and perspective. Art certificates of the third or higher grade will be awarded to those students who execute the prescribed works in each class and pass the required examinations in each group These groups comprise advanced free-hand and light-and-shade drawing, elementary painting and design, advanced painting and drawing, architectural and mechanical drawing, and modelling. Certificates of proficiency will also be granted to competent students in the lithographic, wood-engraving, metal-chasing, and wood-carving classes. Four annual scholarships have been established by the Public Works Department for competition by students in the architectural and mechanical drawing classes. The successful students, after completing the preliminary course in the school prescribed by the Public Works Department, will have the advantage of one year's practical work in the drawing branch of the Chief Engineer's office, with an allowance of Rs. 15 a month each for the first six months, and an increase of Rs. 5 a month if satisfactory progress is made. There were seven competitors for the studentships, whose works were submitted for examination to Mr. W. Banks Gwyther, A.R.I.B.A., who expressed his satisfaction with the quality of the work done by this newly-inaugurated class.

"Their Excellencies the Viceroy and the Countess of Dufferin visited the school on the 27th March, 1888. His Excellency was pleased to award a silver and a bronze medal for competition: 'the silver medal to be awarded to the student who, at the end of the year, has executed the best series of works in any of the classes.'

"Mr. Jobbins reports that, as a result of the practical character of the instruction now imparted, the students are finding remunerative employment One has lately been appointed head-draftsman in the office of the Engineer-in-Chief, Sind-Pishin State Railway."

The industrial schools are conducted on a small scale, aiming at little more than the teaching of ordinary mechanical arts to a limited number of pupils of the artisan class; but on the whole they did well during the year. It may be said generally that the few technical institutions which exist in Bengal hold their own, without any marked advance or retrogression, being in this respect less successful than the colleges and schools for English education, which progress rapidly, though receiving much less assistance from Government. This remark does not apply to the law classes, which flourish of their own vitality, without assistance from the State. The question of promoting technical education in new directions has been examined during the year by the Seebpore College Committee, and will come before Government again when the report of that body is received with the remarks of the Director of Public Instruction. All schemes for instruction of this class involve considerable expense, and it has not been thought necessary to expedite their examination during a season of financial pressure.

11. The Lieutenant-Governor notices with satisfaction the statement of the Director of Public Instruction that the medical education of women made a decided advance

Female education.

during the year. In the Medical College five young ladies were reading as regular students for the L.M.S. or M.B. degree, and one of them (Miss Virginia Mitter) headed the list of successful candidates at the first M.B. examination. Besides the regular students, 21 young ladies attend lectures in the Medical College for a special certificate under the new regulations. A class for instructing females through the medium of the vernacular was opened in June, 1886, in the Campbell Medical School, and is attended by 15 students. The progress of female education generally is indicated by the figures given below:—

	1886-87.		1887-88.	
	Schools.	Pupils.	Schools.	Pupils.
Girls' schools	2,198	43,290	2,247	46,038
Girls in boys' schools ...	......	37,764	......	37,785
GRAND TOTAL ...	2,198	81,054	2,247	83,823

The Director draws attention to the fact that the greatest numerical results are produced in this department by rewarding the teachers of primary schools for the attendance of girls. He observes that "a grant-in-aid girls' school costs Rs. 178 a year, while a primary grant school costs only Rs. 20. There is no limit to the number of girls that can be educated in boys' schools, if the District and Local Boards, in whose hands the administration of the primary grant now rests, find it possible to maintain and increase the existing rates of aid." There has been a most satisfactory advance in the number of girls under instruction in the Dacca and Patna Divisions, counterbalanced, to some extent, by a falling off in some other divisions. In the higher walks of female education it is noticed that the Bethune College, the Free Church Normal School, and the Doveton Institution for Young Ladies, sent up successful candidates for the Entrance Examination of the Calcutta University, while the Bethune College also passed two candidates at the B.A. Examination.

Education of Europeans.

12. The number of European schools remained the same as in the previous year, being 72 in all; there was an increase in the attendance from 6,391 to 6,541. The Government expenditure under this head was Rs. 1,73,018 against Rs. 2,50,367 last year, the decrease being in the grants for buildings. The effort which has been made for some years to give to the education of Europeans a more practical turn, by substituting a special examination for that of the Entrance to the Calcutta University, has entirely failed, not a single boy having appeared as a candidate. It is evident that the authority of a University having a monopoly of the power to grant degrees is sufficient to regulate the course of study in all Bengal schools, of whatever class, and this is an additional argument in favour of introducing an alternative standard, adapted to the requirements of those who need a practical rather than a literary education. The allowances to high schools continue to be regulated by a very minute system of payment by results, involving the examination by a Government Inspector of every boy in every subject. The success of the schools may be roughly gauged by the percentage earned of the total possible grant, which was 73 per cent., a great improvement on the results of the previous year. This progress is, however, attributed in part to a change in the system of marking.

Education of Muhammadans.

13. The Director notices that there has been a satisfactory increase in the attendance of Muhammadans at the higher institutions of instruction. In Arts colleges such pupils have increased from 138 to 217; in English schools, from 13,218 to 14,864; in middle vernacular schools, from 9,053 to 9,860; and besides this absolute increase, the percentage is in each case higher than last year. The total number of Muhammadan students also rose from 366,886 to 401,671, and the percentage from 26·9 to 27·6, figures to be compared with the percentage of 31·5 borne by Muhammadans to the whole population of Bengal; the apparent improvement is not, however, due to any real development, but to the correction of an error made during the last two years in the method of registering certain Koran schools, which were removed from the aided list, without being placed on that of private institutions. There is still some doubt as to the expediency of the course adopted in withdrawing

aid from these schools, and the matter is under consideration The appointment of two Muhammadan Assistant Inspectors, which has been sanctioned for some time, and is now to be immediately carried into effect, will afford facilities for considering such questions from the Muhammadan point of view. Three scholarships were founded in July, 1886, of Rs. 20 a month each, tenable for a year-and-a-half, by any student of the Calcutta Madrassa who has obtained the B.A. degree with honours. This raises the total number of special Muhammadan scholarships to 134. The attendance at Madrassas generally increased from 1,120 to 1,229, in the Calcutta Madrassa (Oriental Department) from 339 to 362. The total number of students in the Calcutta Madrassa was 1,183 against 1,119 in the previous year. A change has recently been effected in the constitution of the College Department of the Madrassa, which, it is hoped, will give the students the advantage of the superior tuition of the Presidency College, without depriving them of the special attraction of a denominational institution.

General summary.

14. The progress made in the extension of education of all kinds during the year may be gathered from the following statement of the number of enrolled pupils:—

	1887.	1888.	Increase per cent.	Decrease per cent.
In public institution—				
Colleges	4,611	5,990	29·9	.....
Secondary schools	184,319	196,694	6·7	...
Primary schools	1,122,286	1,148,410	2·3	...
Special schools	5,378	5,195	......	3·5
Total ..	1,316,594	1,356,289	3·01	..
In private institution—				
Advanced	30,122	31 140	3·3	.. ...
Elementary	5,492	30,309	451·8	......
Teaching the Koran only ..	......	32,773	......	....
Other schools	9,894	2,434	.....	75
Total ...	45,508	96,656	12·3	......
GRAND TOTAL ...	1,362,102	1,452,945	6·6	......

It is observed with satisfaction that there has been an improvement in the general result, and also in all the more important departments.

15. The thanks of the Lieutenant-Governor are given to Sir Alfred Croft for his able management of the Education Department during the year.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPT., P. NOLAN,
The 10th January 1889. *Secy. to the Govt. of Bengal.*

METEOROLOGICAL SUMMARY OF THE MONSOON PERIOD OF 1888.

THE following statement is intended to give a very brief history of the more important features which have characterised the south-west monsoon period and the preceding months of 1888 in Bengal.

The month of January was of ordinary cold-weather character, and was rather free from the influence of land-formed storms, for, up till the 22nd, no depression affected the weather in the province. From this date the usual conditions were almost reversed in Bengal by the formation and advance of a depression from Northern India. The storm first made its appearance to the south of Quetta and west of Jacobabad on the 20th, having apparently been already fully formed before it crossed from Afghanistan into India. It then travelled through Central India and passed through the south of the province of Bengal, entering the Bay of Bengal near Gopalpore and crossing it to near Akyab, when it again passed inland or disappeared. As the result mainly of this storm, rainfall was decidedly heavier than usual in Chutia Nagpur, South Behar, Orissa, South-West Bengal and East Bengal, though it was below the normal in North Bengal and North Behar. Pressure was also above the normal by 0·033 inch, while temperature was below it by nearly a degree and a half. Humidity was also slightly below the normal, while on the other hand cloud proportion was above it.

In February two feeble low pressure areas drifted across Bengal in an easterly direction, which gave rainfall mainly to Chutia Nagpur and Orissa, and South-West and East Bengal, which divisions received falls in excess of the normal. Smaller amounts of rain than usual fell in North Bengal, while Behar was practically rainless. Pressure in February was practically normal, and temperature about one degree above it, and the normal steady rise in temperature during the month was clearly marked. There were also as usual some remarkable oscillations of humidity, due to the occasional setting in of moist sea winds from the head of the Bay, and their subsequent retreat on being driven back by the land winds.

In March there was again the usual continued rapid rise of temperature, and the mean temperature of the province at the end of the month was nearly 10° higher than at the commencement, while temperature remained about one degree above the normal. Two periods of disturbance, during which hot-weather storms or nor'-westers were numerous, also existed during the month, and these gave rainfall heavier than the normal to North Behar, North Bengal and East Bengal, while the falls in Chutia Nagpur, South Behar, South-West Bengal and Orissa were comparatively small and below the normal. Some of these storms were very intense, and probably two of them were of the nature of tornadoes. The first of these was on March 27th at Magura in the Jessore district, which did a moderate amount of damage, and the second was on the same day in the Pubna district, when several villages were much affected by it. Pressure in March was almost normal, while humidity and cloud proportion were somewhat below it.

In April ordinary hot-weather conditions prevailed for the first few days, and a few ordinary nor'-westers only were recorded up till the 7th, when one of the most violent storms on record in India occurred, Dacca being visited by an extremely fierce tornado at about 7 o'clock in the evening of April 7th. The breadth of the tornado path was about 200 paces, and the length about three and a-half miles, and it caused 118 deaths, while 1,200 persons were somewhat severely wounded. After the occurrence of this storm ordinary hot-weather conditions continued up till about the 18th, when again a period of disturbance set in accompanied by local storms or nor'-westers, which lasted up till the close of the month. Again, one of these storms was of the nature of a tornado, and Bhudressur, a small town close to Serampore, was partially demolished at about 8 p.m. on April 23rd, when several persons were killed and many injured. The rainfall brought up by these disturbed conditions was in excess of the normal amount in South-West Bengal, East Bengal, North Bengal, and North Behar,

while it was below the normal in Orissa, South Behar, and Chutia Nagpur. Pressure was also no less than 0·042 inch below the normal, while temperature was about half a degree above it.

In May there were three periods during which the weather was disturbed, and when local storms with rain occurred: the first period was for the first two or three days of the month, the second from the 6th to the 10th, and the third from the 16th to the end of the month, but except in North Behar, where rainfall was normal in amount, all divisions reported a rainfall rather decidedly in defect of the normal, the defect in South-West Bengal, Chutia Nagpur, and South Behar being large.

Up till the end of May therefore the general meteorological conditions in Bengal had not differed to any very large extent from the normal, and in the south of the Bay the first advance of south-west monsoon winds had been reported from the Ceylon stations on about the 8th and 9th of May, and in front of this advance a small cyclonic storm was formed, which crossed the Madras coast. This advance, however, does not appear to have progressed very far up the Bay. The second advance commenced about the 17th of the same month, and lasted about five days, as shown by the high wind velocities at the Ceylon stations, and it would appear that in this advance the monsoon winds reached about the centre of the Bay when they again died away. The third advance of the monsoon current commenced in the south of the Bay on the 27th, and very strong winds were reported at the Ceylon stations up till the 1st of June, and fairly strong winds for some days afterwards. This represented a very powerful advance of the monsoon current, and it is probable that squally unsettled weather obtained over the whole of the centre and south of the Bay at this time. This afterwards developed into a diffused depression, which advanced towards the west coast of the Bay, reaching the South Orissa coast on the morning of the 5th, and in its advance over the land it brought up moderate general rain to a large part of the province, which continued up till the 9th and 10th of the month. At this time all the meteorological conditions appeared favorable for the early setting in of the rains, and under ordinary circumstances the next advance of monsoon winds would have drifted over the province and the regular rains would have broken. But though strong winds continued to be reported in the south of the Bay, particularly for some days about the 6th, again from the 17th and from the 21st, indicating that there were successive waves of strong monsoon winds passing up the Bay, yet rainfall remained practically absent from Bengal from about the 10th up till the 27th to the 29th of the month. The cause of this almost complete stoppage of the progress of the rain-bearing current towards Bengal appears to have been that a feeble but very persistent area of comparatively low pressure with disturbed conditions generally existed at this period in the centre of the Bay off the Arakan and West Pegu coasts. This was accompanied by a feeble but distinctly marked whirl or cyclonic circulation of winds, and this had the effect of deflecting the rain-bearing current in an easterly direction towards Burma and Assam. This area of depression from the Bay apparently advanced over South-West Bengal at the end of June, and at the same time the monsoon current from the Arabian Sea began to make itself felt in Bengal, and general and rather heavy rain set in from June 27th to the 29th, and the rains may thus be said to have broken at this date or at least a fortnight later than the usual date for their commencement.

During this almost rainless interval, from the 10th to the 27th, a period of excessive heat set in over Bengal, and at some stations temperatures were most exceptionally high—higher than ever before recorded. At Calcutta, in particular, a temperature of about 1·2° higher than ever previously known at that station was registered. At many stations also during this period the mean temperature was from 10° to 15° higher than the normal for the period. Thus for June the mean temperature was generally rather largely in excess, while pressure was in distinct defect. The rainfall in June over the province averaged less than half the normal amount, and in such divisions as Orissa, Chutia Nagpur, and South Behar, it was only about a third of the normal. In this month rainfall was exceptionally deficient in the districts of Cuttack, Maldah, and Hazaribagh.

In July the south-west monsoon current was particularly strong, and the general rainfall of the province was nearly twenty per cent. in excess of the normal fall. The only division, indeed, which received a diminished fall was Orissa, where the actual only equalled about four-fifths of the normal, but in South-West Bengal, Behar, and Chutia Nagpur the falls were particularly heavy. Very large defects were in July again reported in the rainfall of the Cuttack district, while in the Pooree district the fall was less than half the usual amount. In North Bengal also the Bogra and Rungpore districts reported rather considerable defects. In this month three barometric depressions and one small cyclonic storm were formed. Two of the depressions were generated over the land and the third close to the Sunderbuns, while the small cyclonic storm formed in the centre of the Bay and crossed the Orissa coast between Pooree and Gopalpore.

In August, again, the monsoon current, as judged by the heaviness of the rainfall brought up by it, was exceptionally strong, and, generally speaking, the rainfall of the whole of the province was about 40 per cent. in excess of the normal. So heavy in fact was the rainfall in this month that in most districts the deficiency in the rainfall caused by the serious retardation of the monsoon current in June was more than neutralized, and the rainfall for the year up to the end of August was above the normal in all districts except North Bengal. Notwithstanding the heaviness of the general rainfall in August, the Purneah and Julpigoree districts received falls largely in defect of the normal, while in Rungpore, Cooch Behar, Darjeeling, Chumparun, and Durbhanga the falls were in moderate defect. On the other hand, some districts, such as Cuttack, Howrah, and Gya, received falls more than twice the normal. The falls in Orissa, South-West Bengal, and South Behar were in fact particularly heavy, and were partly brought about by the passage of a cyclonic storm which was generated over the Sunderbuns on the 19th, and passed through South-West Bengal into South Behar, breaking up in the North-West Provinces on the 29th. Besides this cyclonic storm, there were also two influential and two smaller and rather feeble depressions which influenced the province, three of which formed over the north-west angle of the Bay and part of South-West Bengal, and advanced in a north-westerly direction, while the fourth formed in North Bengal and moved in a westerly direction across the whole of India, only breaking up in the Runn of Cutch. In August pressure was decidedly in defect of the normal, while temperature was also rather lower than usual.

In September the monsoon current weakened much more rapidly than usual, and the total rainfall of the month was only equal to about three-fourths of the normal amount. In addition to the lightness of the rainfall, the greater part of the rain was received during the first half of the month, and rainfall was generally very light for the second half. Indeed, in some districts rainfall had entirely ceased before the close of September. Thus in Behar the south-west monsoon rains almost entirely ceased from about the 27th, and the same was to a great extent true in Chutia Nagpur. The largest defects in this month were reported in North Bengal and North Behar, where the falls were only from one-half to two-thirds of the normal amounts, while in the Pubna, Cooch Behar, Purneah, and Mozufferpore districts the falls varied from only one-half to one-third of the usual amounts.

Three depressions were formed over the Bay in this month—the first two were unimportant, and they occurred during the first seven days and gave moderate rain only, but the third was a very noticeable storm, and it lasted from the 12th to the 20th. This storm apparently originated in the Gulf of Siam, and it crossed from that place to the north of Tavoy into the Gulf of Martaban as a well-formed cyclone. It then crossed South Pegu a little to the north of Diamond Island, strengthening rapidly in its advance, and then advanced across the Bay of Bengal, striking the Orissa coast near False Point, and as it approached the land the velocity of advance of the storm was probably at least 20 miles an hour. The storm then passed through Orissa and afterwards advanced, first in a north-westerly and then in a northerly direction, finally breaking up in the Mussoorie and Simla Hills on the 20th or 21st. It brought very heavy rain in the line of its advance.

When the effects of this storm passed away, the monsoon current rapidly retreated from the province and commenced to retreat down the Bay, so that at the end of September practically no rain was falling. In front of the retreating current, however, a cyclonic storm of moderate intensity was formed near Diamond Island on October 1st, and this very slowly advanced up to the head of the Bay, striking the coast near Burisal on the night of the 6th, and then advancing in a north-easterly direction. This storm brought heavy rain to East Bengal, which received almost its normal fall for October; but in all other districts rainfall was much below the normal, the falls generally varying from a quarter to a third of the normal amount. In South-West Bengal, Orissa, and Chutia Nagpur, moderate showers fell in the early part of the month up to about the 7th, but the falls in North Bengal and South Behar were particularly scanty, and in North Behar practically no rain at all fell. Even the falls which were received were less valuable than they might have been, from the fact that they were confined to a few days only in the early part of the month, and rainfall was practically absent over the greater part of the province from the 7th, though a few showers fell in Chutia Nagpur and parts of South Behar on the 28th and 29th. It must also be added that general rain commenced to fall in the south of Orissa at the end of October.

In previous years it has been the custom to close the review of the monsoon season with the meteorology of October, but in the present year the meteorology of November has been so important that it is desirable to state briefly the general conditions during this month. At the close of October a violent cyclone was formed in the south of the Bay, which passed almost over Madras on the 31st, crossing the peninsula into the Arabian Sea. The wave of moist winds accompanying and following the cyclone then advanced up the west coast of the Bay of Bengal, and gradually and slowly spread over Bengal. This moist current gave moderate rain to Orissa from about the 30th October to the 14th of November; moderate rain to South-West Bengal from the 9th to the 14th; and moderate rain to East and North Bengal on the 14th November; and light, but rather local, rain in South Behar and Chutia Nagpur from the 12th to the 14th. The moist winds then retired, but at the end of November a land-formed disturbance from Upper India drifted over the province, and good general rain was received over practically the whole of Behar on about the 28th or 29th. All divisions therefore received fairly general, and in some cases rather heavy, rain in November, and the falls in all divisions, except East Bengal, were largely above the normal. Orissa received an average fall of nearly three inches, South-West Bengal one of about one and-a-half inches. In North Bengal, East Bengal, South Behar, and Chutia Nagpur the falls averaged from about four to five-tenths of an inch, but in North Behar the average was only about two-tenths. The districts in which the falls were smallest in November were—Chittagong, Noakholly, Durbhunga, Chumparun, Mozufferpur, Sarun, Backergunge, and Rajshahye.

The most important features of the monsoon season of 1888 and of the months preceding it in Bengal have been—

1. The occurrence of several tornadoes of an extremely violent type during March and April.

2. The general rainfall was fairly normal in character for the first five months of the year, *i.e.*, nearly up to the usual date of the commencement of the true rainy season.

3. There was a period of exceptionally intense heat in June owing to the serious retardation of the rains.

4. The advance of monsoon current took place at about the usual period in the south of the Bay; but owing to the existence of an area of barometric depression off the Arakan and Pegu coasts, the monsoon winds were deflected towards Burma and Assam during the greater part of June, and the true rains did not break in Bengal until the 27th June, or rather more than a fortnight later than usual.

5. The rainfall current was very strong during July and August, and gave exceptionally heavy rain.

6. The monsoon current was very light in September, and retreated more rapidly than usual, and rainfall in this month was only about three-fourths as large as usual.

7. In October, except at the commencement of the month and in East Bengal, rainfall was to a great extent absent.

8. In November good general, but in most cases rather light, rain fell over practically the whole province.

9. The following tables give briefly the amount and variation of the rainfall in each of the seven meteorological divisions of the province, month by month, for the monsoon season, May to October inclusive:—

Actual Rainfall.

Meteorological Divisions.	May.	June.	July.	August.	September.	October.	Year.
Orissa ...	3·60	2·65	10·18	20·70	9·80	1·47	47·90
South-West Bengal ...	3·33	5·76	15·71	20·05	6·98	1·49	53·32
East Bengal ..	8·38	9·70	19·60	21·02	8·55	4·75	72·00
North Bengal ...	8·40	12·22	14·03	12·22	7·40	0·77	55·04
North Behar ...	3·29	5·29	16·11	13·72	6·38	0·01	44·80
South Behar ...	1·42	2·60	16·22	19·10	6·48	0·54	46·36
Chutia Nagpur ...	1·10	2·46	16·76	17·63	7·15	1·04	46·14

Variation of actual Rainfall from the average in inches.

Meteorological Divisions	May.	June.	July.	August.	September.	October.	Year
Orissa	— 0·31	— 6·21	— 2·41	+ 9·52	— 1·12	— 4·67	— 5·20
South-West Bengal ...	— 2·08	— 4·33	+ 3·71	+ 7·29	— 2·06	— 2·86	— 0·33
East Bengal ...	— 0·88	— 8·51	+ 3·26	+ 5·15	— 3·62	— 0·66	— 5·26
North Bengal ...	— 0·45	— 5·54	+ 0·02	— 1·91	— 6·19	— 3·83	—17·90
North Behar ...	+ 0·08	— 3·44	+ 3·74	+ 2·12	— 3·47	— 3·57	— 4·54
South Behar ...	— 0·99	— 4·08	+ 4·20	+ 7·80	— 1·50	— 2·78	+ 2·65
Chutia Nagpur ...	— 1·75	— 5·72	+ 3·63	+ 4·43	— 1·69	— 2·04	— 3·14

Variation expressed in a percentage.

Orissa	— 9	— 70	— 19	+ 85	— 10	— 76	— 10
South-West Bengal ...	— 38	— 43	+ 31	+ 57	— 23	— 66	— 1
East Bengal ...	— 10	— 47	+ 20	+ 33	— 30	— 12	— 7
North Bengal ...	— 5	— 31	+ 0	— 14	— 46	— 83	— 25
North Behar ...	+ 3	— 40	+ 30	+ 18	— 35	—100	— 9
South Behar ...	— 41	— 61	+ 35	+ 75	— 19	— 84	+ 6
Chutia Nagpur ...	— 61	— 70	+ 28	+ 34	— 19	— 66	— 7

10. Finally, the rainfall of the whole province from May to October has averaged 52·22 inches, while the normal fall is 57·04 inches, or the actual fall has been 4·82 inches less than the normal. Expressed as a percentage, the actual rainfall in Bengal for this period has been nearly 9 per cent. in defect of the normal.

A. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL,

The 10th December 1888.

TABLE I.

Actual Monthly Rainfall of districts in Bengal for the months May to October 1888.

[*N. B.*—The figures in this table are the arithmetical averages of the corresponding figures in the returns for the sub-divisional stations.]

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa	Pooree ...	1·89	2·89	8·70	15·35	8·28	2·15	39·26
	Cuttack ...	2·40	2·75	9·47	25·64	8·11	1·27	49·64
	Balasore ...	5·78	2·69	11·62	19·90	10·49	0·97	51·45
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs.	2·98	1·10	10·02	28·84	8·22	2·16	53·32
	Midnapore ...	3·39	4·70	17·25	24·66	10·48	1·37	61·85
	24 Pergunnahs	3·49	6·17	16·42	22 91	8·04	1 98	59·01
	Hooghly and Howrah	3·71	6·78	16·29	26·00	7 28	2·06	62·12
	Bankoora ...	3·11	6 79	15·78	19·47	5·79	0·56	51·50
	Beerbhoom ...	2 81	6·79	16·09	22·45	7·50	0·66	56·30
	Burdwan	3 92	7·06	16·58	20 67	6·58	0·57	55·38
	Nuddea ...	4·69	4·28	17 98	19·56	6·23	1 84	54·58
	Moorshedabad ..	3·28	5·49	14 29	14·79	7·17	1·66	46 68
	Khoolna and Jessore ..	2·46	6·63	15·55	12·72	5·21	1·52	44·09
East Bengal	Chittagong ...	11·80	10 99	45·55	41·53	11·11	7·13	128·11
	Chittagong Hill Tracts	8·20	7·00	12·56	31·18	8·77	6·23	73·94
	Backergunge ...	2·40	6 94	22 78	25·72	6 68	8 09	72·61
	Noakholly ...	6·56	9·25	34·78	31·71	12·34	12·57	107·21
	Furreedpore ...	4·09	7·77	15 31	13·48	6·27	0·84	47·76
	Dacca ...	4·57	9·80	18·94	13 70	7·09	1 59	55 69
	Tipperah ..	10·28	10·89	12·40	18·24	8·86	3 54	64·21
	Mymensingh ...	16·46	12·41	12·21	13·82	9·77	3·28	67·95
North Bengal.	Pubna	7·66	5·94	12·67	10·70	3·56	0·97	41·50
	Bogra ...	9 98	5·94	9·78	11·38	6·10	0 52	43·70
	Rajshahye ...	5·11	3 85	13·08	11·72	12·03	1·25	47 04
	Maldah ...	3·41	1·46	11·92	15·87	6·47	1·49	40·62
	Dinagepore ...	8·30	5·16	14·04	11·52	6·15	0 60	45 77
	Rungpore ...	11 75	17 01	9·76	10 16	8·47	0·31	57·46
	Julpigoree and Cooch Behar.	8·14	30·64	22·61	15·99	8·91	0 96	87·25
	Darjeeling Hill ...	6·74	20·65	35·56	20·26	14·29	2 07	99·57
North Behar	Purneah and North Bhagulpore.	6·31	5·25	18·82	10 82	6·97	0·04	48·21
	Durbhunga ...	2 85	5·97	14·55	9·85	5·36	Nil	38·58
	Mozufferpore ...	1·57	5·51	17·23	11·13	3·73	Nil	39·17
	Chumparun ...	2·49	7·20	15·23	8 20	7·63	Nil	40·75
	Sarun	0 92	3·17	12·63	12·22	8·25	Nil	37 19
South Behar	Shahabad ...	0 56	1·42	14·69	16·49	7·82	0 48	41·46
	Gya ...	0 37	2·45	14·77	24·80	6·22	0·29	48·90
	Patna ...	1·20	2·33	18·78	18·60	5·18	0·07	46 16
	Monghyr and South Bhagulpore.	2·13	2·28	17·66	18·74	6·55	0·73	48·09
	Sonthal Pergunnahs...	2·40	4·58	15·56	22·29	6·35	0·91	52·09
Chutia Nagpur.	Hazaribagh ...	0·79	1·98	17·62	26 63	6·95	1·90	55 87
	Lohardugga ...	1·29	3·13	18·00	19·59	7·99	0·23	50·23
	Manbhoom ...	1·83	3·21	15·58	17·88	7·28	0·59	46·37
	Singbhoom ...	2·40	3·04	12 06	17·25	5·32	0·05	40 12

TABLE. II.

Variation of the average district actual Monthly Rainfall from the normal average for the months May to October 1888.

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa	Pooree ...	—1·16	—5·63	—3·38	+3·59	—1·96	—5·97	—14 51
	Cuttack ...	—1·20	—6·91	—3·00	+15·02	—1·48	—4·33	—1·90
	Balasore ...	+1·05	—5·74	—1·41	+8·63	—0·74	—4·32	—2·58
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs.	—1·82	—8·71	—5·44	+14·53	—3·22	—5·56	—10·22
	Midnapore	—1·80	—4·74	+4·50	+10 73	+2·39	—2·90	+8·18
	24-Pergunnahs ...	—2·23	—3·56	+4·00	+9·72	—0·73	—2·12	+5·08
	Hooghly and Howrah	—1·65	—2 92	+3·43	+11·89	—1 24	—1 87	+7·64
	Bankoora ...	—0·86	—2·92	+2·51	+5·20	—2·45	—3·19	—1·71
	Beerbhoom ..	—0·60	—3·28	+3 15	+9 35	—2·38	—2·80	+3·44
	Burdwan ...	—1·13	—1·82	+6·00	+8 57	—1·09	—3·40	+7 13
	Nuddea ...	—1·62	—5·44	+7 74	+7·53	—2 36	—2·37	+3·48
	Moorshedabad	—1·99	—3·71	+3·41	+2·91	—3·23	—2·56	—5·17
	Khoolna and Jessore	—4·33	—5·67	+4·36	+0·76	—3 73	—2·90	—11·51
East Bengal	Chittagong ...	+1·80	—18·64	+14·49	+18·08	—3·21	+0·46	+12·98
	Chittagong Hill Tracts	—1·30	—13·12	—5·06	+14·89	—3 98	—0·92	—9·49
	Backergunge ...	—5·26	—12·46	+4·80	+10·11	—5·44	+2·56	—5 69
	Noakholly ...	—3 84	—18·07	+11·51	+7·04	—4·42	+6 20	—1·58
	Furreedpore ...	—4·50	—4·78	+3·41	+1·42	—2·98	—3 60	—11·03
	Dacca ...	—4 35	—3·22	+5·20	+0·77	—3 31	—2·80	—7·71
	Tipperah ...	—0·15	—5·88	—1·31	+2·12	—2·59	—1·63	—9·44
	Mymensingh	+7·01	—4·56	—0·49	+0·03	—3·38	—2 04	—3 43
North Bengal.	Pubna ...	+0·55	—5·21	+2·10	—1·31	—6·86	—3 62	—14 35
	Bogra ...	+2·19	—6·82	—2·97	—0·25	—4 26	—3·88	—15·99
	Rajshahye ...	—1·02	—6·10	+1·31	—0·38	+0·57	—3 20	—8·82
	Maldah ...	—1·09	—10 40	—0·07	+3·85	—4·58	—2·20	—14·49
	Dinagepore	+1·88	—8·58	+1 79	+0 02	—5·12	—3·15	—13·16
	Rungpore ...	+0·52	—4·29	—4 23	—1·91	—4 97	—4·58	—19·46
	Julpigoree and Cooch Behar.	—5·62	—0·42	+2·74	—6 93	—12·86	—4·86	—27·95
	Darjeeling Hill ...	—4 58	—8·19	+4·37	—7·70	—4·31	—4 24	—24·65
North Behar	Purneah and North Bhagulpore.	+1·37	—6·25	+5·06	—2·86	—5·42	—3·57	—11·67
	Durbhunga	+0·22	—2·06	+2 96	—0·90	—3·89	—2·92	—6 59
	Mozufferpore ...	—0·89	—1·91	+5·81	+1·05	—5 27	—3 40	—4 61
	Chumparun ...	—0·10	—0·99	+3·66	—3·74	—1·67	—3·54	—6·38
	Sarun ...	—1·16	—3 32	+0·32	+1·98	+0·80	—4·38	—5·76
South Behar	Shahabad ...	—0 85	—3·56	+3·38	+5·40	+0·74	—2·90	+2·21
	Gya ...	—1·39	—3·07	+2 54	+13·07	—0·57	—2·54	+8·04
	Patna ...	—0·89	—3 91	+6·83	+8 12	—1·86	—3·19	+5·10
	Monghyr and South Bhagulpore.	—0 32	—4·67	+6·06	+7·68	—1·35	—2·47	+4·92
	Sonthal Pergunnahs ..	—1·44	—4·37	+2·70	+10 37	—3·86	—2·84	+0 56
Chutia Nagpur.	Hazaribagh ...	—1·96	—6·41	+4 12	+13·38	—2·34	—1·23	+5 56
	Lohardugga ...	—1·35	—4·72	+5·14	+6·72	—1 02	—2·64	+2·13
	Manbhoom ...	—0·94	—4·87	+3·51	+4·68	—0·41	—2·75	—0·78
	Singbhoom ...	—1 77	—5·26	—2·21	+3·42	—3·00	—2·90	—11·72

TABLE III.

The variation of the average District Monthly Rainfall expressed as a percentage of the normal rainfall for the months May to October 1888.

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa ...	Pooree	—38	—66	—28	+31	—19	—74	—27
	Cuttack .	—34	—72	—24	+141	—15	—78	—4
	Balasore ...	+22	—68	—11	+77	—7	—82	—5
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs..	—38	—89	—35	+102	—28	—72	—16
	Midnapore .	—35	—50	+35	+77	+30	—68	+15
	24-Pergunnahs ...	—39	—37	+32	+74	—9	—52	+9
	Hooghly and Howrah	—31	—30	+27	+84	—15	—48	+14
	Bankoora ..	—22	—30	+19	+37	—30	—85	—3
	Beerbhoom ..	—18	—33	+24	+71	—24	—81	+7
	Burdwan .	—22	—21	+57	+71	—14	—86	+15
	Nuddea ..	—26	—56	+75	+63	—27	—56	+7
	Moorshedabad .	—38	—40	+31	+25	—31	—61	—10
	Khoolna and Jessore	—64	—46	+39	+7	—42	—65	—20
East Bengal	Chittagong .	+18	—63	+47	+77	—23	+7	+11
	Chittagong Hill Tracts	—14	—65	—29	+92	—31	—13	—11
	Backergunge ...	—69	—65	+27	+65	—45	+46	—7
	Noakhally ...	—37	—66	+50	+29	—27	+97	—1
	Furreedpore ...	—51	—38	+28	+12	—32	—81	—18
	Dacca ..	—49	—25	+37	+6	—32	—64	—12
	Tipperah .	—2	—35	—10	+13	—23	—31	—13
	Mymensingh ..	+74	—27	—4	+0	—26	—38	—5
North Bengal.	Pubna ...	+8	—47	+20	—11	—66	—79	—26
	Bogra ...	+28	—54	—23	—2	—41	—88	—27
	Rajshahye ...	—17	—61	+11	—3	+5	—72	—15
	Maldah ...	—24	—88	—1	+32	—41	—60	—26
	Dinagepore ...	+29	—63	+15	+0	—45	—84	—22
	Rungpore :	+5	—20	—30	—16	—37	—94	—25
	Julpaiguri and Cooch Behar.	—40	—1	+14	—30	—59	—84	—24
	Darjeeling Hill ...	—40	—29	+14	—28	—23	—67	—12
North Behar	Purneah and North Bhagulpur.	+28	—54	+37	—21	—44	—99	—20
	Durbhunga ...	+9	—26	+26	—9	—42	—100	—15
	Mozufferpur ...	—37	—26	+51	+10	—59	—100	—10
	Chumparun ...	—1	—12	+32	—31	—18	—100	—14
	Sarun ...	—56	—51	+3	+19	+11	—100	—13
South Behar	Shahabad ...	—60	—71	+30	+49	+10	—86	+6
	Gya ...	—79	—56	+21	+111	—8	—90	+20
	Patna ..	—42	—63	+57	+77	—26	—98	+12
	Monghyr and South Bhagulpore.	—13	—67	+52	+69	—18	—77	+11
	Sonthal Pergunnahs...	—37	—49	+21	+87	—38	—76	+1
Chutia Nagpur.	Hazaribagh ...	—71	—76	+31	+101	—25	—39	+15
	Lohardugga ...	—51	—60	+40	+52	—11	—92	+5
	Manbhoom. ...	—34	—60	+29	+36	—5	—82	—2
	Singbhoom ...	—42	—63	—16	+25	—36	—100	—22

TABLE IV.

Monthly Rainfall of the Sub-divisional Rainfall-recording Stations in the Province of Bengal for the months of May to October 1888.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree	4·06	2·13	3·51	14·47	6·77	2·47	33·41
		Khurdah	1·33	3·65	7·64	15·18	10·27	0·60	38·67
		Banpur	0·92	3·15	6·76	13·52	7·17	2·39	33·91
		False Point	1·25	2·61	16·87	18·23	8·93	3·14	51·03
		Gop	?	?	9·63	21·68	9·23	1·08	41·62?
		Pipli	?	?	7·35	?	12·48	?	19·83?
	Cuttack	Jagatsingpore	1·30	2·85	10·22	32·02	6·79	1·09	54·27
		Banki	0·94	4·90	9·63	17·76	7·50	1·25	41·98
		Cuttack	3·10	1·03	8·88	25·41	10·03	1·41	49·86
		Kendrapara	3·48	2·57	6·75	24·69	5·22	0·55	43·26
		Jajpore	3·19	2·42	11·85	28·34	11·02	2·05	58·87
		Dharmsala	3·25	1·05	15·58	24·78	9·65	1·30	55·61
		Salipore	2·60	4·50	7·05	?	9·86	?	24·01?
	Balasore	Chandbali	3·10	0·61	10·86	24·50	8·80	0·30	48·47
		Bhuddruck	5·23	2·57	11·14	18·48	7·81	1·21	46·44
		Sorah	6·44	3·72	9·14	17·87	9·51	1·58	48·26
		Balasore	5·45	1·35	10·13	20·86	16·82	2·08	56·69
		Jellasore	7·76	3·89	14·29	19·27	10·36	Nil	55·57
		Baripodah	6·43	4·01	14·16	18·39	9·62	0·67	53·28
SOUTH-WEST BENGAL.	Midnapore	Contai	3·78	0·93	10·95	26·05	9·63	0·93	52·27
		Saugor Island	2·96	1·09	9·52	29·35	6·23	2·04	51·19
		Tumlook	2·50	4·20	16·90	27·40	12·40	1·40	64·80
		Midnapore	5·35	3·62	22·34	23·47	7·56	2·45	64·79
		Ghatal	2·33	6·28	12·52	23·11	11·47	0·27	55·98
		Kukrahaty	3·91	2·59	16·46	29·16	9·88	2·96	64·96
		Heria	5·45	0·91	14·92	18·96	10·15	1·23	51·62
		Bhagwanpore	5·08	2·42	10·75	18·58	9·15	2·71	48·69
		Garbeta	1·30	5·66	20·44	29·78	6·76	0·22	64·16
	24-Pergunnahs.	Diamond Harbour	2·19	1·28	9·60	31·12	8·79	3·51	56·49
		Canning Town	2·35	3·79	14·71	25·59	9·09	0·15	55·68
		Alipore Jail	3·79	3·30	12·13	27·45	10·74	2·52	59·93
		Barrackpore	3·94	6·17	18·44	21·64	6·95	1·70	58·84
		Dum-Dum	5·46	3·29	17·19	26·26	7·42	2·[illegible]7	62·49
		Baraset	2·55	9·71	17·50	22·83	8·76	1·76	63·11
		Buseerhat	1·72	8·38	16·84	16·39	6·33	1·04	50 70
	Howrah	Howrah	5·02	4·62	12·87	28·82	9·00	2·37	62·70
		Mehesreka (*Oolberiah*).	3·42	3·58	12·56	32·21	4·81	1·82	58·40
	Hooghly	Serampore	3·93	5·80	19·93	23·32	7·82	2·52	63·32
		Hooghly	2·89	12·09	16·34	23·95	6·19	3·51	64·97
		Jehanabad	3·28	7·80	19·74	21·69	8·57	0·06	61·14
	Burdwan	Culna	3·21	7·17	20·38	22·61	4·64	0·53	58·54
		Burdwan	2·19	4·75	14·13	13·74	8·64	0·71	44·16
		Cutwa	6·35	9·26	15·24	25·64	6·45	0·48	63·42
		Raneegunge	1·52	9·32	20·21	20·58	5·25	0·11	56·94
		Mankur	3·30	2·27	19·73	13·33	5·91	0·39	44·93
	Bankoora	Bankoora	2·98	8·49	13·54	16·47	4·47	1·72	47·67
		Bishenpore	2·37	4·50	15·07	25·30	6·65	Nil	58·89
		Maliara	2·59	7·34	17·51	16·07	5·71	0·52	49·74
		Khatra	4·51	6·84	17·01	20·02	6·32	Nil	54·70
		Indas	3·35	5·06	14·26	13·81	4·70	0·17	41·35
		Kotalpore	4·06	5·39	14·98	20·96	3·48	Nil	48·87

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
South-West Bengal—concld.	Bankoora,—concluded.	Anda ...	0·75	3·87	13·26	14·51	6·22	0·20	38·81
		Gangajalghati ...	1·50	7·91	20·64	18·21	5·78	1·17	55·21
		Raipore ...	8·55	5·54	15·86	25·77	4·60	Nil	55·32
		Sonamukhi ...	8·79	4·81	17·12	15·15	4·19	Nil	45·06
	Beerbhoom ..	Bh. Soory ...	3·34	6·00	15·60	21·14	6·50	1·10	53·68
		Hetampore ...	2·99	4·93	12·88	22·08	3·61	0·61	47·10
		Rampore Haut ..	3·37	6·92	15·67	26·03	14·62	0·80	67·41
		Bolpore ...	2·55	6·24	21·64	22·02	15·74	3·36	71·55
		Murarai ..	?	?	21·34	19·18	6·56	1·06	48·14?
	Nuddea ...	Ranaghat ...	1·96	5·24	23·77	19·88	6·84	1·26	58·95
		Kishnaghur ...	2·36	7·42	21·01	26·53	5·87	5·51	68·70
		Chôoadanga ...	5·33	3·91	15·93	21·55	5·60	1·72	54·04
		Meherpore ...	9·02	3·90	15·45	17·90	5·39	0·40	52·06
		Kooshtea ...	4·77	0·92	13·75	11·93	7·47	0·32	39·16
	Khoolna ...	Satkhira ...	0·39	4·96	14·52	11·72	5·48	0·54	37·61
		Bagirhat ...	0·81	6·89	16·88	19·60	4·40	1·39	49·97
		Khoolna ...	1·40	4·96	22·10	13·06	4·94	2·10	48·56
	Jessore ...	Narail ...	2·47	4·22	9·68	8·74	3·07	0·90	29·08
		Jessore ...	2·97	10·70	19·57	14·50	7·35	1·08	56·17
		Jhenidah ...	5·43	7·29	10·52	9·66	5·86	0·37	39·13
		Magoora ...	4·90	9·62	9·38	11·70	5·52	2·72	43·84
		Bongong	1·29	4·42	21·72	12·71	5·01	3·05	48·20
	Moorshedabad.	Kandi ...	2·41	7·12	20·68	14·58	4·33	0·67	49·79
		Berhampore ...	3·20	4·22	11·89	14·93	5·25	0·63	40·12
		Lalbagh ...	3·35	4·61	14·83	13·49	5·86	2·32	44·46
		Amizgunge ...	?	?	?	12·29	6·72	2·62	48·52
		Jungipore ...	3·50	4·37	10·55	15·35	8·46	3·24	45·47
		Lalgola ...	3·29	6·36	11·11	18·16	12·38	0·50	51·80
		Giagunge ...	3·95	6·23	16·71	11·26	7·13	2·60	47·88
		Akhrigunge ...	6·05	6·54	16·36	9·62	10·92	0·59	50·08
		Patkabari ...	6·37	7·89	16·16	10·23	3·30	?	43·95?
East Bengal.	Chittagong ..	Cox's Bazar ..	10·18	12·30	61·25	45·75	7·68	10·01	147·17
		Chittagong ...	13·41	9·67	29·84	37·31	14·54	4·24	109·01
		Kutubdia ..	8·67	12·95	42·13	37·15	4·64	12·65	118·19
		Satkanya ...	13·75	8·36	30·39	33·04	7·72	4·65	97·91
	Chittagong Hill Tracts.	Rangamati ...	6·91	8·60	13·74	32·56	9·13	5·02	75·96
		Ruma ..	9·48	5·41	11·38	29·79	8·41	7·43	71·90
	Backergunge.	Patuakhally ...	2·37	6·97	32·56	32·37	4·78	8·01	87·06
		Perozepore ...	2·00	8·40	20·21	21·84	7·87	0·89	61·21
		Burrisal ..	3·18	6·45	21·59	21·23	5·62	8·97	67·04
		Bhola ...	2·04	5·92	16·74	27·48	8·46	14·50	75·14
		Gournaddi ...	3·38	7·02	19·74	12·10	5·32	2·53	50·09
		Bauphal ..	3·40	6·81	34·41	31·54	9·10	15·35	100·61
	Noakholly ...	Noakholly ...	7·72	8·89	34·09	32·45	8·68	16·89	108·72
		Fenny ...	5·40	9·60	35·47	30·98	16·00	8·24	105·69
		Harishpore ...	8·70	9·94	45·24	40·40	18·97	7·08	130·33
		Ramganj ...	3·66	10·05	21·97	27·19	11·61	13·86	88·34
	Furreedpore	Madaripore ..	2·84	7·67	16·72	11·59	5·16	1·08	45·06
		Furreedpore ...	4·26	7·71	16·98	14·48	8·74	0·81	52·98
		Goalundo ...	5·16	7·92	12·23	14·36	4·92	0·63	45·22
	Dacca ...	Munshigunge ...	3·32	11·59	22·28	12·14	10·55	1·47	61·35
		Dacca ...	4·99	7·83	16·14	15·03	6·91	1·56	52·46
		Naraingunge ...	4·36	13·47	22·89	12·97	6·96	2·28	62·93
		Manickgunge ..	5·61	6·29	14·43	14·69	3·94	1·03	45·99
		Joydebpore ...	10·54	10·45	18·28	15·20	4·03	1·15	59·65
	Hill Tipperah...	Agartola ...	14·33	10·80	8·99	14·02	6·88	Nil	55·02

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
East Bengal.	Tipperah ...	Comilla ...	9·39	6·33	13·81	26·84	8·55	6·76	71·68
		Chandpore ...	2·75	9·70	19·98	13·80	7·84	3·78	57·85
		Brahmunberia ...	14·66	16·71	6·80	18·28	12·18	3·61	72·24
		Ramchandrapore	9·03	10·09	17·11	11·83	10·45	3·58	62·09
		Nasirnagar ...	15·54	8·49	7·20	11·58	11·83	5·80	60·41
		Daudkandi ...	3·67	10·78	21·87	14·25	12·72	1·80	65·09
		Kasba ...	10·26	15·44	6·90	14·65	8·87	2·25	58·37
		Laksham ...	8·36	6·91	24·16	20·67	9·41	12·01	81·52
	Mymensingh	Kishoregunge ...	22·13	19·08	10·20	12·26	16·64	3·19	83·50
		Atia (*Tangail*) ...	4·37	6·39	9·27	11·06	2·46	4·70	38·25
		Mymensingh .	21·49	9·69	9·50	15·31	12·24	4·26	72·49
		Jamalpore ...	14·57	11·05	12·82	17·49	6·92	1·73	64·58
		Netrokona ...	19·76	15·95	19·26	12·98	10·58	2·54	81·07
		Subornakhally ...	12·35	10·64	11·98	13·59	9·52	2·17	60·25
		Durgapore ...	19·87	19·84	27·60	23·90	12·50	7·70	111·41
		Dewanganj ...	16·00	8·65	12·44	12·69	4·00	3·45	57·23
North Bengal.	Pubna ...	Pubna ...	4·07	6·17	14·73	10·65	4·65	0·37	40·64
		Serajgunge ...	11·25	5·71	10·62	10·75	2·46	1·57	42·36
	Bogra .	Sherepore ...	8·27	3·18	9·21	12·87	6·32	1·20	41·05
		Nowkhilla ...	10·45	9·57	12·69	10·76	5·15	0·51	49·13
		Bogra ...	10·63	5·41	7·88	11·72	5·69	0·27	41·60
		Panchbibi ...	10·56	5·61	9·34	10·16	7·25	0·08	43 00
	Rajshahye ...	Beauleah ...	4·00	2·58	7·70	9·21	7·75	2·10	33·34
		Nattore ...	6·22	5·11	18·45	14·22	16·30	0·40	60·70
		Naogaon ...	4·20	4·58	11·45	7·24	9·13	0·15	36·75
		Lalpore ...	5·16	3·96	12·10	11·04	8·81	0·38	41·45
		Manda ...	5·04	1·59	10·05	8·59	4·44	1·58	31·29
	Maldah ..	Maldah ...	2·61	1·39	14·72	21·27	6·95	1·80	48·74
		Chanchal	4·21	1·52	9·11	10·45	5·98	1·18	32·45
		Gajol ...	3·89	1·90	10·84	13·12	6·80	0·24	36·79
		Sibganj ...	3·41	3·31	19·36	11·74	7·64	0·57	46·03
	Dinagepore...	Mohadebpore ...	4·82	3·72	13·16	11·98	4·12	0·85	38·65
		Churamon ...	4·72	2·60	11·92	14·28	10·99	0·79	45·30
		Raigunge ...	7·10	6·08	17·90	10·19	7·26	0·88	49·41
		Dinagepore ...	15·18	7·86	18·40	10·55	4·90	Nil	56·89
		Baloorghat ...	9·67	5·54	8·82	10·61	3·48	0·46	38·58
	Rungpore ...	Thakurgaon ...	?	?	16·61	10·19	8 36	Nil	35·16 ?
		Bhawanigunge ... (*Gyabanda*).	14·09	10·50	6·35	11·18	6·60	Nil	48·72
		Rungpore ...	11·80	11·65	7·87	13·27	7·51	0·10	52·20
		Kurigram ...	11·12	30·28	11·95	8·10	13·29	1·15	75·89
		Bagdogra ... (*Nilphamari*).	9·97	15·62	12·88	8·09	6·47	Nil	53·03
		Ulipore ...	11·82	18·25	5·76	13·01	8·44	0·85	58·13
	Julpigoree ...	Julpigoree ...	5·08	29·73	35·75	20·04	13·61	1·25	105·46
		Alipore Doar ...	7·24	33·06	18·21	12·77	11·02	0·38	82·68
		Fallacotta ..	6·31	30·38	26·44	15·33	11·27	2·90	92·63
		Debiganj ...	7·97	25·24	14·81	7·83	4·84	Nil	60·69
	Cooch Behar	Dinhatta	8·77	36·68	13·67	23·10	8·33	0·35	90·90
		Cooch Behar ...	11·63	33·09	21·90	14·58	8·14	1·56	90·90
		Mickligunge ...	9·36	25·13	22·18	8·03	9·21	0·61	74·52
		Matabhanga ...	5·88	28·59	19·56	14·23	5·28	1·01	74·55
	Darjeeling Hill.	Buxa ...	11·87	42·65	42·92	30·58	23·90	5·83	157·75
		Siliguri ...	8·76	23·73	27·27	12·90	10·49	2·24	85·39
		Darjeeling ...	3·88	8·53	39·42	23·01	12·00	0·08	86·92
		Kalimpong ...	2·44	7·70	32·61	14·54	10·78	0·11	68·18

Meteorological Division.	District.	Station.	May	June.	July.	August	September.	October	Total.
North Behar.	Purneah	Kissengunge ...	8·01	7·74	17·47	7·12	6·36	0·18	46·88
		Arrareah ...	3·37	10·57	19·49	8·84	8·23	Nil	50·50
		Purneah ...	5·69	1·67	18·15	15·25	4·32	Nil	45·08
		Gonawara ...	?	?	?	11·47	4·65	1·20	17·32?
		Balarampore ...	?	2·00	18·05	10·39	8·41	1·68	40·53?
		Matiari ...	4·94	7·03	16·62	5·40	5·42	Nil	39·41
		Kahaganj ...	3·04	16·67	21 62	7·72	7·51	1 10	57 66
	North Bhagulpore.	Maddaporo ...	8·89	3·08	21·37	13·11	9·83	Nil	56·28
		Soopool ...	5·59	3·21	17·60	9·76	6·10	Nil	42·26
		Protapganj ...	2·19	7·10	14·27	10·46	4·57	Nil	38·59
	Durbhunga	Tajpore ...	0·90	5·47	14·35	13·02	6·06	Nil	39·80
		Durbhunga ...	3·39	6·39	14·35	6·70	4·38	Nil	35·21
		Madhubani	4·26	6·04	14·94	9·83	5·65	Nil	40·72
		Bahera ...	4·10	5·68	18·09	16·18	6·65	Nil	50·70
		Roshera ...	1·80	2·54	15·28	14·57	8·27	Nil	42·46
	Mozufferpore	Sitamarhi ...	2·30	5·43	15·65	5·69	2·59	Nil	31·66
		Mozufferporo ..	1·14	8·00	18·11	9·64	3·78	Nil	40·67
		Hajipore ...	1·28	3·10	17·93	18·05	4·82	Nil	45·18
		Paru ...	1·60	4·26	13·44	13·03	4·29	0·05	36·67
		Mohua ...	0·75	2·05	14·00	14·05	4·56	Nil	35·41
		Sinhar ..	2·92	3·70	7·95	6·37	7·33	Nil	28·[illegible]7
		Fupri ...	4·50	4·32	13·01	6·76	4·57	Nil	33·16
	Chumparun	Motihari ...	2·74	6·94	12·30	7·22	6·71	Nil	35·91
		Bettiah ...	2·23	7·47	18·16	9·18	8·54	Nil	45·58
		Bagaha ...	2·23	12·68	16·60	8·59	11·90	Nil	52·00
		Burhurwa ...	1·87	6·35	15·37	11·00	4·07	Nil	38·66
	Sarun	Gopalgunge ...	1·21	4·38	11·79	11·44	7·18	Nil	36·00
		Sewan ..	0·50	3·04	11·66	12·89	12·24	Nil	40 33
		Chuprah ..	1·06	2 09	14 43	1[illegible]·32	5 34	Nil	35 24
South Behar.	Shahabad	Buxar ...	0·87	2·52	12·11	13·39	11·25	0·60	40·74
		Dehree ...	0·63	1·74	15·90	15·36	7·93	1·36	42 92
		Bhuboah ...	0·50	1·37	13·57	17·13	7·20	Nil	39·57
		Sasseram ...	0·23	0·72	14·18	18·81	7·13	Nil	41·07
		Arrah	0·55	0·77	17·90	17·74	5·58	0·43	42·97
		Mohaniah ...	Nil	3·20	8·23	14·25	8·30	Nil	33·98
	Gya	Aurungabad ...	0·88	2·25	22·04	21·11	5·97	0·71	52·96
		Gya ...	0·23	3·06	10 09	28·59	7·85	0·40	50·22
		Nowadah ...	0·09	1·77	14·89	26·52	4·10	Nil	47·67
		Johanabad ...	0·27	2·71	12·07	22·96	6·66	0·03	44·70
		Arwal ...	0·72	1·55	10·61	17·12	7·22	Nil	37·22
		Daudnagar ..	Nil	0·70	16·58	18·15	6·28	Nil	4[illegible]·71
		Sherghati ...	Nil	0·20	10·60	17·42	3·80	0·62	32 64
		Kajauli .	Nil	1 33	11·20	14·80	0·60	Nil	27·93
		Takri Barawan .	0·50	0 80	11·75	18·87	5·14	Nil	37·06
	Patna	Patna ...	0·79	2·83	15 14	17·11	3·17	Nil	39·04
		Dinapore ...	0·95	4·61	17·60	15·53	2·70	Nil	41·39
		Behar ...	1·49	0·58	20·97	24·41	3·63	0·28	51·36
		Barrh ...	1·55	1·30	21·42	17·35	11·20	Nil	52·82
		Bikram ...	0·50	2 00	11·10	17·05	6·35	Nil	37·[illegible]0
		Hilsa ...	0·91	2 29	13 62	23 78	4·69	0 15	45·11
	Monghyr	Beegooserai ...	1·04	2·15	16·36	18·27	7·67	Nil	45·19
		Monghyr ...	2·98	1·21	21·95	14·12	9·95	0·03	53·27
		Jamui ...	1·05	3·62	13·16	25·26	4·46	1·08	48·63
		Gogri ...	3·10	2·52	21·17	19·67	12·04	Nil	58 50
		Sheikpura ...	1·30	2·94	22·21	27·64	4·54	Nil	58·63
	South Bhagulpore.	Bhagulpore ...	4·98	1·92	23·73	16·88	6·20	0·07	53·78
		Banka ...	0 59	2·49	10·08	19·14	4·44	2·45	39 19
		Kolgong ...	4·15	4·80	19·38	15·33	6·00	0·87	50·53

METEOROLOGICAL DIVISION	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR —*concluded.*	Sonthal Pergunnahs.	Rajmehal ...	2·87	2·50	12·77	23·50	4·37	Nil.	46·01
		Godah ...	2·84	5·09	13·17	19·65	5·91	0·83	47·49
		Pakour ...	3·04	5·68	20·75	19·79	11·12	1·45	61·83
		Nya Doomka ...	1·72	4·49	12·39	26·36	4·14	1·51	50·61
		Deoghur ..	1·20	4·21	16·95	22·35	5·47	1·34	51·52
		Jamtara ...	2·70	5·49	17·34	22·16	7·10	0·35	55·14
		Mohagama ...	?	2·48	14·22	19·46	8·44	Nil.	44·60 ?
		Nanihat .	0·29	5·59	8·21	11·84	1·20	0·65	27·78
CHUTIA NAGPUR.	Hazaribagh	Pachamba (*Giridi*)	2·71	2·00	16·73	23·78	5·88	4·15	55·25
		Hazaribagh ...	0·73	1·62	20·76	25·08	5·16	1·03	54·38
		Semtagurah ...	0·42	0·72	22·63	21·56	7·12	1·54	53·99
		Mahudi Hills ...	0·08	2·97	12·67	25·21	10·61	2·07	53·61
		Jhoomra Hills ...	Nil	2·60	15·35	37·50	6·00	0·70	62·15
		Barhi ...	0·06	1·67	21·93	21·80	3·05	1·04	49·55
		Chatru ..	0·05	2·69	23·23	19·44	7·45	0·99	53·85
		Karagdiha ...	0·40	3·14	13·97	22·92	11·40	Nil.	51·63
		Ramghar ...	1·35	2·75	11·76	24·09	5·06	1·95	46·96
	Lohardugga	Lohardugga .	1·08	2·87	15·89	17·42	8·21	0·35	45·82
		Ranchee ...	2·57	3·05	18·98	20·70	7·88	0·35	53·53
		Palamow ...	0·23	3·48	19·13	26·63	7·88	Nil.	51·35
		Silli ...	?	?	8·78 ?	20·70	5·90	Nil.	35·38 ?
		Balumat ...	Nil	?	18·00	15·82	6·84	Nil	
		Hosseinabad	Nil.	Nil.	?	?	4·32	Nil.	
		Garwah ...	Nil.	2·51	18·18	22·07	3·72	0·20	46·68
	Singbhoom	Chyebassa ...	2·40	3·04	12·06	17·25	5·32	0·05	40·12
		Chakradharpore ...	2·20	3·09	23·12	?	10·92	Nil.	39·33 ?
		Ghatsilla .	2·59	3·40	23·14	18·47	8·31	0·28	55·89
		Baharagura ...	4·72	7·73	18·47	21·83	5·80	Nil.	58·55
	Manbhoom ..	Purulia ...	2·19	4·17	20·47	20·97	9·13	0·05	56·98
		Gobindpore ...	1·47	2·26	10·69	14·78	5·44	1·12	35·76
		Raghunathpore ...	2·30	2·87	16·19	24·02	7·44	1·20	54·02
		Barrabhoom ...	2·84	2·76	18·91	21·87	4·79	0·09	51·26
		Jhalda ...							
		Chas ...							

TABLE V.

Variation of the Sub-Divisional actual Monthly Rainfall from the normal average for the months May to October 1888.

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September	October	Total.
Orissa	Pooree	Pooree	+1·40	-5·43	—6·40	+3·54	—3·18	—5·58	—15·65
		Khurdah	—2·01	—5·45	—4·91	+2·60	—0·0[illegible]	—6·00	—15·86
		Banpur	—1·23	—3·97	—3·81	+1·67	—2·17	—3·50	—13·01
		False Point	—2·38	—6·31	+2·72	+4·63	—2·21	—7·13	—10·68
	Cuttack	Jagatsingpore	—1·46	—4·69	—0·76	+20·65	—1·82	—5·38	+6·54
		Banki	—1·22	—4·92	—2·42	+8·28	—2·25	—2·81	—5·34
		Cuttack	—0·17	—9·47	3·[illegible]2	+13·77	+0·33	—4·04	—3·10
		Kendrapara	—0·46	—5·95	—5·04	+11·45	—3·92	—5·39	—9·31
		Jajpore	—1·16	—7·10	—1·34	+16·60	+1·08	—3·07	—5·01
	Balasore	Chandbali	—1·49	—6·72	—0·97	+12·60	—2·24	—5·77	—4·59
		Bhuddruck	+0·06	—6·11	—0·95	+7·26	—2·69	—3·22	—5·65
		Sorah	+1·45	—2·87	—2·81	+6·42	—1·62	—3·66	—3·09
		Balasore	+0·48	—8·52	—1·76	+8·08	+4·19	—4·53	—2·06
		Jellasore	+4·12	—3·82	—0·81	+7·92	—0·12	—4·34	+2·95
		Baripodah	+1·46	—5·78	+1·11	+6·09	—2·06	—3·15	—2·33
South-West Bengal.	Midnapore	Contai	—0·64	—9·39	—3·46	+11·83	—2·11	—7·10	—10·93
		Saugor Island	—1·51	—9·77	—6·46	+13·34	—6·33	—7·02	—17·75
		Tumlook	—2·30	—4·72	+4·65	+12·84	+4·07	—2·79	+11·75
		Midnapore	+0·03	—5·90	+8·44	+10·95	—0·63	—2·47	+10·42
		Ghattal	—2·81	—3·51	—1·10	+7·06	+2·19	—3·05	—0·92
		Garbetta	—2·88	—1·04	+6·94	+14·82	—2·56	—2·4[illegible]	+12·86
	24-Pergunnahs	Diamond Harbour	—2·80	—8·07	—4·93	+16·12	—2·22	—1·54	—3·44
		Alipore Jail	—1·50	—6·49	—1·24	+13·23	+0·84	—1·78	+3·06
		Barrackpore	—1·23	—2·72	+5·95	+9·07	—0·49	—1·63	+8·95
		Dum-Dum	—0·45	—6·31	+5·01	+12·86	—1·37	—1·41	+8·33
		Baraset	—3·30	+0·02	+6·26	+10·32	—0·26	—2·60	+10·44
		Buseerhat	—4·67	—2·31	+4·02	+3·14	—2·37	—3·19	—5·38
	Howrah	Howrah	—0·06	—6·05	+0·27	+15·48	—0·10	—1·76	+7·78
		Mohesreka (*Ooloobeariah*).	—2·61	—5·06	—0·92	+17·31	—3·52	—1·51	+3·69
	Hooghly	Serampore	—1·03	—3·72	+6·80	+10·36	—0·08	—1·58	+10·75
		Hooghly	—2·75	+1·70	+4·12	+10·95	—1·44	—0·44	+12·14
		Jehanabad	—1·79	—1·49	+6·86	+5·34	—1·05	—4·10	+3·77
	Burdwan	Culna	—1·57	—1·19	+9·12	+10·55	—1·90	—3·21	+11·80
		Burdwan	—2·86	—4·62	+1·78	+1·36	+0·38	—3·69	—7·65
		Cutwa	+0·98	—0·64	+4·76	+12·95	—1·75	—3·37	+12·93
	Bankoora	Bankoora	—0·44	—1·19	+0·76	+4·11	—4·09	—2·80	—3·65
		Bishenpore	—2·60	—4·95	+3·01	+9·36	—2·40	—2·10	+0·02
		Maliara	—0·72	—1·24	+3·14	+1·57	—0·48	—2·90	—0·63
		Khatra	+1·04	—3·42	+1·63	+5·64	—3·37	—3·89	—2·37
		Raipur	—0·73	—2·23	+4·38	+8·33	—4·72	—3·34	+1·69
	Beerbhoom	Bh. Soory	+0·05	—4·10	+2·96	+7·97	—3·27	—2·49	+1·12
		Hetampore	—0·29	—5·99	—1·46	+8·95	—6·71	—2·10	—7·60
		Rampore Haut	—0·10	—2·43	+4·54	+12·48	+3·40	—2·89	+15·00
		Raneegunge	—1·57	+0·89	+6·15	+6·59	—1·89	—3·13	+7·04
	Nuddea	Ranaghat	—3·12	—4·16	+12·89	+6·88	—0·11	—2·38	+10·00
		Kishnaghur	—4·08	—2·10	+10·69	+15·24	—1·97	+0·98	+18·76
		Chooadanga	—2·52	—5·05	+5·84	+9·05	—4·24	—2·63	+0·45
		Meherpore	+3·04	—5·46	+5·34	+5·30	—2·53	—3·11	+2·58
		Kooshtea	—2·29	—9·64	+2·73	—0·03	—2·49	—4·41	—16·13

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
South-West Bengal—concld.	Khoolna ...	Satkira ...	—5·54	—7·09	+1·11	—0·66	—3·23	—3·91	—19·32
		Bagirhat ...	—5·79	—5·84	+2·02	+6·74	—5·30	—3·64	—11·81
		Khoolna ...	—4·93	—7·58	+10·01	+0·86	—4·64	—1·97	—8·25
	Jessore ...	Narail ...	—4·09	—6·60	+0·59	—1·79	—4·01	—2·24	—18·14
		Jessore ...	—4·13	—2·43	+7·87	+2·74	—1·91	—4·28	—2·44
		Jhenidah ...	—1·04	—5·16	+0·77	—2·89	—2·85	—4·21	—15·38
		Magoora ...	—2·88	—2·03	—0·90	+1·73	—2·47	—1·03	—7·58
		Bongong ...	—4·39	—5·20	+10·52	—0·26	—3·33	—1·55	—4·21
	Moorshedabad ...	Kandi ...	—1·99	—2·24	+8·06	+2·83	—4·54	—3·03	—0·91
		Berhampore ...	—1·67	—5·26	+1·50	+4·02	—4·38	—4·57	—10·36
		Lalbagh ...	—1·46	—4·19	+4·20	+0·78	—4·26	—1·94	—6·87
		Azimgunge ...	—0·71	—2·67	+6·00	—0·39	—2·81	—2·30	—2·88
		Jungipore ...	—1·32	—4·16	—0·42	+3·56	—2·18	—0·25	—4·77
		Lalgola ...	—2·17	—2·68	—0·13	+6·69	+2·67	—3·63	+0·75
East Bengal.	Chittagong ..	Cox's Bazar ...	—0·20	—20·79	+19·94	+17·69	—7·03	+2·13	+11·74
		Chittagong ...	+4·22	—13·26	+7·71	+16·12	+0·79	—1·72	+13·86
	Chittagong Hill Tracts.	Rangamati ...	—2·98	—9·42	—5·04	+13·62	—3·43	—1·83	—9·08
		Ruma ...	+0·60	—14·47	—4·37	+14·24	—3·97	+0·03	—7·94
	Backergunge	Patuakhally ...	—5·60	—14·47	+10·43	+14·42	—8·07	+1·90	—1·39
		Perozepore ...	—4·76	—7·58	+3·75	+6·71	—3·28	—4·60	—9·76
		Burrisal ...	—4·42	—10·06	+4·81	+8·04	—5·82	+4·19	—3·26
		Bhola ..	—4·77	—14·27	—1·72	+8·40	—3·35	+8·24	—7·47
	Noakholly ..	Noakholly ...	—1·72	—14·78	+12·73	+9·23	—7·64	+9·21	+7·03
		Fenny ...	—5·10	—16·63	+11·83	+6·39	—0·01	+2·10	—1·42
	Furreedpore	Madaripore ...	—5·98	—5·42	+4·13	—0·61	—3·14	—2·94	—13·96
		Furreedpore ...	—4·17	—5·14	+4·31	+2·27	—0·65	—3·51	—6·89
		Goalundo ...	—2·27	—3·15	+0·34	+2·82	—3·19	—3·97	—9·42
	Dacca ...	Munshigunge ...	—5·73	—4·70	+6·16	—2·58	—1·65	—3·77	—12·27
		Dacca ..	—4·04	—5·17	+3·24	+2·66	—3·04	—3·53	—9·88
		Naraingunge ..	—3·27	+0·37	+7·28	+1·52	—3·59	—1·59	+0·72
		Manickgunge ...	—3·05	—3·33	+2·32	+2·98	—3·94	—2·75	—7·77
	Hill Tiperah	Agartola ...	+3·33	—3·41	—2·64	+0·25	—3·27	—4·45	—10·19
		Comilla ...	—0·98	—12·01	—4·09	+10·07	—2·88	+1·52	—8·37
	Tiperah ..	Chandpore .	—6·37	—7·51	+4·51	—6·31	—3·98	—2·28	—21·94
		Brahmunberia	+3·64	+1·18	—4·37	+5·32	+0·57	—1·08	+5·26
	Mymensingh	Kishoregunge ..	+11·28	+0·22	—2·73	—0·86	+4·40	—1·99	+10·32
		Atia ...	—2·52	—6·38	—1·90	—0·90	—7·01	—0·20	—18·91
		Mymensingh ...	+9·47	—10·90	—6·59	+0·79	—1·79	—1·13	—10·15
		Jamalpore ...	+5·45	—4·19	+0·35	+3·78	—6·78	—3·13	—4·52
		Netrokona ..	+8·14	—2·44	+5·69	—2·94	—3·18	—3·54	+1·73
North Bengal.	Pubna ..	Pubna ...	—2·74	—5·37	+4·02	—2·02	—6·41	—4·20	—16·72
		Serajgunge ...	+3·42	—5·39	—0·33	—0·47	—7·02	—2·72	—12·51
	Bogra ...	Sherpore ...	—0·20	—8·53	—3·50	+0·58	—3·62	—2·75	—18·02
		Nowkhilla ..	+2·66	—3·07	+1·22	—0·04	—4·27	—4·25	—7·75
		Bogra ...	+1·84	—9·68	—7·95	—0·54	—6·07	—4·26	—26·66
		Panchbibi ...	+2·91	—5·42	—3·06	—1·27	—3·16	—3·91	—13·91
	Rajshahye ...	Beauleah ...	—1·59	—7·93	—3·79	—1·53	—3·10	—2·67	—20·61
		Nattore ...	—0·57	—4·87	+6·25	+1·90	+4·57	—3·86	+3·42
	Maldah ...	Maldah ...	—1·26	—8·44	+3·98	+11·00	—3·83	—2·48	—0·98
		Chanchal ...	—0·59	—10·13	—3·16	—3·33	—4·27	—1·84	—23·32

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October	Total.
North Bengal—*concld.*	Dinagepore	Mohadebpore	—1·98	—8·42	+2·15	—1·23	—7·22	—2·18	—18·88
		Churamon	—0·43	—9·41	+0·20	+3·32	—1·01	—1·85	—9·18
		Raigunge	+0·71	—7·66	+5·21	—2·36	—3·09	—2·68	—9·87
		Dinagepore	+7·25	—8·98	+3·41	—2·66	—7·72	—1·72	—13·42
		Baloorghat	+3·17	—5·97	—1·45	+1·18	—6·06	—2·79	—11·92
	Rungpore	Bhawanigungo (*Gyabanda*).	+4·98	—5·19	—5·56	+0·89	—5·07	—4·83	—14·78
		Rungpore	+1·13	9·38	—7·90	+0·27	—5·55	—1·66	—26·09
		Kurigram	—2·46	+6·27	—1·42	—2·76	+0·58	—3·03	—2·82
		Bagdogra (*Nilphamari*).	—1·90	—9·71	—0·70	—7·05	—8·36	—3·89	—31·61
	Julpigoree	Julpigoree	—6·40	+0·61	+9·69	—5·87	—9·98	—4·00	—15·95
	Cooch Behar	Dinhatta	—5·60	+5·45	—2·52	+7·40	—12·87	—4·39	—12·53
		Cooch Behar	—2·94	—3·53	—0·45	—6·45	—13·32	—3·65	—30·34
		Micklígungo	—3·65	—2·38	+0·94	—13·99	—13·68	—3·60	—36·36
		Matabhanga	—7·08	—3·64	—1·62	—8·12	—17·46	—4·23	—42·15
	Darjeeling Hill.	Buxa	—9·06	—1·54	—4·76	—13·02	—7·95	—4·13	—40·16
		Siliguri	—0·86	—1·03	+2·01	—9·15	—5·58	—2·30	—15·21
		Darjeeling	—3·69	—15·49	+9·06	—3·66	—5·42	—6·02	—25·22
		Kalimpong	—3·65	—9·93	+10·49	—6·64	+0·18	—4·12	—13·67
North Behar.	Purneah	Kissengunge	+1·59	—7·65	+0·98	—8·59	—7·43	—2·95	—24·05
		Arrareah	—2·40	—2·12	+3·31	—4·66	—5·05	—3·33	—14·55
		Purneah	+1·20	—9·19	+4·02	+0·85	—9·15	—3·76	—16·03
	North Bhagulpore.	Maddapore	+4·58	—5·25	+9·36	+1·25	—0·46	—4·32	+5·16
		Soopool	+1·61	—5·76	+6·26	—2·12	—3·30	—2·72	—6·03
	Durbhunga	Tajpore	—1·37	—1·99	+2·04	+2·53	—1·94	—3·00	—8·73
		Durbhunga	+0·77	—1·45	+2·33	—4·14	—4·95	—2·82	—10·56
		Madhubani	+1·23	—2·41	+4·10	—0·64	—4·25	—2·48	—4·45
	Mozufferpore	Sitamarhi	—0·34	—2·41	+4·78	—3·83	—6·66	—2·65	—11·11
		Mozufferpore	—1·22	+1·19	+7·17	—0·61	—4·45	—2·87	—0·79
		Hajipore	—0·75	—3·14	+5·72	+7·11	—2·28	—3·76	+2·90
	Chumparun	Motihari	+0·30	—1·31	+1·34	—5·01	—1·98	—3·56	—10·22
		Bettiah	—0·43	—0·88	+5·17	—2·94	—0·78	—3·38	—3·24
	Sarun	Gopalgungo	—1·50	—2·04	—1·01	+0·69	+0·25	—5·01	—8·62
		Sewan	—1·30	—3·62	—0·02	+2·00	+3·41	—5·8[illegible]	—3·34
		Chuprah	—0·38	—4·08	+4·08	+2·97	—1·87	—2·93	—2·21
South Behar.	Shahabad	Baxar	—0·12	—2·24	+1·04	+3·33	+3·82	—2·60	+3·23
		Dehree	—1·02	—1·46	+1·25	+3·87	+0·15	—1·62	+1·17
		Bhuboonah	—0·62	—3·69	+1·00	+5·13	+0·50	—3·[illegible]1	—0·79
		Sasseram	—0·89	—1·28	+2·60	+6·56	+0·18	—3·18	+0·69
		Arrah	—0·98	—5·68	+5·28	+7·39	—2·77	—2·51	—0·73
	Gya	Aurungabad	—0·75	—2·96	+9·65	+8·13	—1·18	—1·93	+10·96
		Gya	—1·02	—3·07	—1·22	+17·98	+0·70	—1·94	+11·43
		Nowadah	—1·82	—3·59	+3·02	+15·04	—2·44	—2·59	+7·71
		Johanabad	—1·38	—2·20	—0·16	+16·06	+0·94	—3·30	+8·96
	Patna	Patna	—0·95	—3·89	+4·54	+7·11	—4·70	—2·81	—0·70
		Dinapore	—0·70	—1·79	+5·89	+4·03	—3·92	—3·[illegible]0	+0·51
		Behar	—0·67	—5·59	+7·93	+13·08	—2·75	—2·78	+9·22
		Barrh	—0·77	—3·58	+8·69	+7·55	+3·52	—3·03	+12·18
	Monghyr	Beegooserai	—1·31	—3·86	+4·97	+7·94	+0·38	—3·00	+5·12
		Monghyr	+0·86	—5·35	+13·23	+3·40	+1·51	—3·78	+9·87
		Jamui	—1·08	—2·73	+0·86	+13·12	—2·83	—1·45	+5·89

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September	October.	Total
South Behar —concld.	South Bhagulpore.	Bhagulporo ...	+2·31	−6·22	+12·17	+6·08	−1·72	−3·86	+8·76
		Banka ...	−1·98	−5·01	−0·34	+7·[illegible]9	−3·59	−0·98	−4·31
	Sonthal Perguinnahs.	Rajmehal ...	−2·06	−7·52	−0·14	+12·87	−7·49	−3·03	−7·37
		Godda ...	−0·71	−1·61	+1·96	+7·70	−3·62	−2·11	−1·61
		Pakour ...	−1·88	−4·98	+7·88	+6·33	−1·41	−2·72	+3·22
		Nya Doomka ..	−1·91	−4·30	−1·10	+12·29	−6·13	−2·37	−3·52
		Deoghur ..	−1·81	−3·91	+3·31	+9·98	−3·07	−3·02	+1·51
		Jamtara ...	−0·69	−2·41	+3·80	+8·92	−0·73	−2·68	+6·21
Chutia Nagpur.	Hazaribagh	Pachamba ...	+0·46	−5·84	+3·44	+10·84	−2·78	+0·94	+7·06
		Hazaribagh ...	−0·99	−6·32	+7·75	+11·94	−2·66	−2·26	+7·46
		Semtagurah ...	−2·30	−6·98	+9·78	+8·75	−0·96	−1·42	+6·87
		Mahudi Hills	−2·13	−3·61	+0·25	+10·52	+1·70	−6·84	−0·11
		Jhoomrah Hills	−3·16	−7·18	−1·95	+19·65	−5·31	−2·54	−0·49
	Lohardugga	Lohardugga ...	−1·81	−4·80	+2·88	+3·74	−1·46	−1·96	−3·41
		Ranchee ..	+0·21	−4·59	+6·56	+8·43	−0·31	−2·70	+7·60
		Palamow ...	−1·12	−2·43	+6·22	+8·60	−0·07	−2·66	+8·54
	Singbhoom ...	Chyebassa ...	−1·42	−4·97	−1·94	+3·47	−3·06	−2·89	−10·81
	Manbhoom...	Purulia ...	−0·57	−4·60	+9·03	+8·01	+1·33	−3·55	+9·65
		Gobindpore ...	−0·53	−4·74	−1·18	+2·29	−1·78	−2·88	−8·82

TABLE VI.

Percentage variation of the monthly Rainfall of the Sub-divisional Rainfall-registering Stations in Bengal, from the normal average rainfall for the months May to October 1888.

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
Orissa	Pooree	Pooree	+ 53	— 72	— 65	+ 32	—32	— 69	—34
		Khurdah	— 60	— 60	— 39	+ 21	— 1	— 91	—29
		Banpur	— 57	— 56	— 36	+ 17	—23	— 59	—28
		False Point	— 66	— 71	+ 19	+ 34	—20	— 69	—17
	Cuttack	Jagatsingpore	— 53	— 62	— 7	+ 2	—21	— 83	+14
		Banki	— 56	— 50	— 20	+ 87	—23	— 69	—11
		Cuttack	— 5	— 90	— 28	+118	+ 3	— 74	— 6
		Kendrapara	— 12	— 70	— 43	+ 86	—43	— 91	—18
		Jajpore	— 27	— 75	— 10	+141	+11	— 60	+ 9
	Balasore	Chandbali	— 30	— 92	— 8	+106	—20	— 95	— 9
		Bhuddruck	+ 1	— 70	— 8	+ 65	—26	— 73	—11
		Sorah	+ 29	— 44	— 24	+ 56	—15	— 70	— 6
		Balasore	+ 10	— 86	— 15	+ 63	+33	— 69	— 4
		Jellasore	+113	— 50	— 5	+ 70	— 1	—100	+ 6
		Baripodah	+ 29	— 59	+ 9	+ 50	—18	— 82	— 4
South-West Bengal.	Midnapore	Contai	— 14	— 91	— 24	+ 83	—18	— 89	—17
		Saugor Island	— 34	— 90	— 40	+ 83	—50	— 77	—26
		Tumlook	— 48	— 53	+ 38	+ 88	+49	— 67	+22
		Midnapore	+ 1	— 62	+ 61	+ 87	— 8	— 50	+19
		Ghatal	— 55	— 36	— 8	+ 44	+28	— 92	— 2
		Garbetta	— 69	— 16	+ 51	+ 99	—27	— 92	+25
	24-Pergunnahs.	Diamond Harbour	— 56	— 86	— 34	+107	—20	— 30	— 6
		Alipore Jail	— 28	— 66	— 9	+ 93	+ 8	— 41	+ 5
		Barrackpore	— 24	— 31	+ 48	+ 72	— 7	— 49	+18
		Dum-Dum	— 8	— 66	+ 41	+ 96	—16	— 33	+15
		Baraset	— 57	0	+ 56	+ 82	— 3	— 60	+20
		Buseerhat	— 73	— 22	+ 31	+ 24	—27	— 75	—10
	Howrah	Howrah	— 1	— 57	+ 2	+116	— 1	— 43	+14
		Mohesreka (*Oolberiah.*)	— 43	— 59	— 7	+116	—42	— 45	+ 7
	Hooghly	Serampore	— 21	— 39	+ 52	+ 80	— 1	— 39	+20
		Hooghly	— 49	+ 16	+ 34	+ 84	—19	— 11	+23
		Jehanabad	— 35	— 16	+ 53	+ 33	—11	— 99	+ 7
	Burdwan	Culna	— 33	— 14	+ 81	+ 87	—29	— 86	+25
		Burdwan	— 57	— 49	+ 14	+ 11	+ 5	— 84	—15
		Cutwa	+ 18	— 6	+ 45	+102	—21	— 88	+26
	Bankoora	Bankoora	— 13	— 12	+ 6	+ 33	—48	— 62	— 7
		Bishenpore	— 52	— 52	+ 25	+ 59	—27	—100	0
		Maliara	— 22	— 14	+ 22	+ 11	— 8	— 85	— 1
		Khatra	+ 30	— 33	+ 11	+ 39	—35	—100	— 4
		Raipur	— 17	— 29	+ 38	+ 48	—51	—100	+ 3
	Beerbhoom	Bh. Soory	+ 2	— 41	+ 23	+ 61	—33	— 69	+ 2
		Hetampore	— 9	— 55	— 10	+ 68	—65	— 78	—14
		Rampore Haut	— 3	— 26	+ 41	+ 92	+30	— 78	+29
		Raneegunge	— 51	+ 11	+ 44	+ 47	—26	— 97	+14
	Nuddea	Ranaghat	— 61	— 44	+118	+53	— 2	— 65	+20
		Kishnaghur	— 63	— 22	+104	+135	—25	+ 22	+38
		Chooadanga	— 32	— 56	+ 58	+72	—43	— 60	+ 1
		Meherpore	+ 51	— 58	+ 53	+42	—32	— 89	+ 5
		Kooshtea	— 32	— 91	+ 25	— 0	—25	— 93	—29

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
South-West Bengal—*concld.*	Khoolna ...	Satkira ...	—93	—59	+8	—5	—37	—88	—34
		Bagirhat ...	—88	—46	+14	+52	—55	—72	—19
		Khoolna ...	—78	—60	+84	+7	—48	—48	—15
	Jessore ...	Narail ...	—62	—61	+6	—17	—57	—71	—38
		Jessore ...	—60	—18	+67	+23	—21	—80	—4
		Jhenidah ...	—16	—41	+8	—23	—33	—92	—2[illegible]
		Magoora ...	—37	—18	—9	+17	—31	—27	—15
		Bongong ...	—77	—54	+94	—2	—40	—34	—8
	Moorshedabad.	Kandi ...	—45	—24	+64	+24	—51	—82	—2
		Berhampore ...	—34	—55	+14	+37	—45	—88	—21
		Lalbagh ...	—30	—48	+40	+6	—42	—46	—13
		Azimgunge ..	—15	—30	+56	—3	—29	—47	—6
		Jungipore ..	—27	—49	—4	+30	—20	—7	—9
		Lalgolah ...	—40	—30	—1	+58	+27	—88	+1
East Bengal.	Chittagong ..	Cox's Bazar ...	—2	—63	+48	+63	—48	+27	+9
		Chittagong ...	+46	—58	+35	+76	+6	—29	+15
	Chittagong Hill Tracts.	Rangamati ...	—30	—52	—27	+72	—27	—27	—11
		Ruma ...	+7	—73	—28	+92	—32	+0	—10
	Backergunge	Patuakhally ...	—70	—67	+47	+80	—63	+31	—2
		Perozepore ...	—70	—47	+53	+44	—29	—84	—14
		Burrisal ...	—58	—61	+29	+61	—51	+88	—5
		Bhola ..	—70	—71	—9	+44	—28	+132	—9
	Noakholly ...	Noakholly ...	—18	—62	+60	+40	—47	+120	+7
		Fenny ...	—49	—63	+50	+26	—0	+34	—1
	Furreedpore	Madaripore ...	—68	—41	+33	—5	—38	—73	—24
		Furreedpore ...	—49	—40	+34	+19	—7	—81	—12
		Goalundo ..	—31	—28	+3	+24	—39	—86	—17
	Dacca ...	Munshigunge ...	—63	—29	+38	—18	—14	—72	—17
		Dacca ..	—45	—40	+25	+22	—21	—69	—16
		Naraingunge ..	—43	+3	+47	+13	—31	—41	+1
		Manickgunge ...	—35	—34	+19	+25	—50	—73	—14
	Hill Tipperah..	Agartolah ...	+30	—24	—23	+2	—32	—100	—16
	Tipperah ...	Comilla ...	—9	—65	—23	+60	—25	+29	—10
		Chandpore ...	—70	—44	+29	—31	—34	—38	—27
		Brahmunberia ...	+33	+8	—39	+41	+5	—23	+8
	Mymensingh	Kishoregunge ...	+104	+1	—21	—6	+36	—38	+14
		Atia ..	—37	—50	—17	—8	—74	—4	—33
		Mymensingh ...	+79	—53	—41	+5	—13	—21	—12
		Jamalpore ..	+60	—27	+3	+28	—49	—64	—6
		Netrokona ...	+70	—13	+42	—18	—23	—58	+2
North Bengal.	Pubna ...	Pubna ...	—40	—47	+38	—16	—58	—92	—29
		Serajgunge ..	+44	—48	—3	—4	—74	—63	—23
	Bogra ...	Sherpore ...	—2	—73	—28	+5	—36	—70	—31
		Nowkhilla ..	+34	—24	+11	—0	—45	—89	—14
		Bogra ...	+21	—64	—52	—4	—52	—94	—39
		Panchbibi ...	+35	—49	—25	—11	—30	—98	—20
	Rajshahye ...	Beauleah ..	—28	—75	—33	—14	—29	—56	—38
		Nattore ...	—8	—49	+51	+15	+39	—91	+6
	Maldah ...	Maldah ...	—33	—86	+37	+107	—35	—57	—2
		Chanchal ...	—12	—87	—25	—24	—42	—61	—12

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
North Bengal—*concluded.*	Dinagepore	Mohadebpore ...	—29	—69	+20	—9	—64	—72	—33
		Churamon ...	—8	—78	+2	+30	—8	—70	—17
		Raigunge ...	+11	—56	+41	—19	—30	—75	—16
		Dinagepore ...	+91	—53	+23	—20	—61	—100	—19
		Baloorghat ..	+49	—52	—14	+13	—64	—86	—24
	Rungpore ...	Bhawanigunge (*Gyabanda*) ...	+55	—33	—47	+9	—43	—100	—23
		Rungpore ...	+11	—45	—50	+2	—42	—94	—33
		Kurigram ...	—18	+26	—42	—25	+5	—73	—4
		Bagdogra (*Nilphamari*) .	—16	—42	—5	—47	—56	—100	—37
	Julpigoree ...	Julpigoree ...	—56	+2	+37	—23	—42	—76	—13
	Cooch Behar	Dinhatta ...	—39	+17	—16	+47	—61	—93	—12
		Cooch Behar ...	—20	—9	—2	—30	—62	—70	—25
		Mickligunge ..	—28	—9	+4	—64	—59	—85	—32
		Matabhanga ...	—55	—11	—8	—36	—77	—81	—37
	Darjeeling Hill	Buxa ...	—43	—8	—10	—30	—25	—42	—21
		Siliguri ...	—9	—4	+8	—42	—25	—53	—15
		Darjeeling ...	—49	—64	+30	—14	—31	—99	—22
		Kalimpong ...	—60	—56	+47	—31	+2	—97	—17
North Behar.	Purneah ...	Kissengunge ...	+25	—43	+6	—54	—54	—94	—33
		Arrareah ...	—42	—11	+20	—34	—38	—100	—21
		Purneah ...	+27	—85	+28	+6	—68	—100	—26
	North Bhagulpore.	Maddapore ...	+106	—63	+78	+11	—4	—100	+29
		Soopool ...	+40	—64	+55	—18	—35	—100	—10
	Durbhunga	Tajpore ...	—60	—27	+17	+24	—24	—100	—8
		Durbhunga ...	+29	—18	+19	—34	—53	—100	—23
		Madhubani ...	+40	—29	+38	—6	—43	—100	—92
	Mozufferpore	Sitamarhi ...	—13	—31	+44	—40	—72	—100	—26
		Mozufferpore ...	—52	+17	+66	—6	—54	—100	—2
		Hajipore ..	—37	—53	+47	+70	—72	—100	+7
	Chumparun	Motihari ...	+12	—16	+12	—41	—23	—100	—22
		Bettiah ...	—16	—11	+40	—24	—8	—87	—7
	Sarun ...	Gopalgange ..	—55	—32	—8	+6	+4	—100	—19
		Sewan ...	—72	—54	0	+18	+39	—100	—8
		Chuprah ...	—26	—66	+39	+32	—26	—100	—6
South Behar	Shahabad ...	Buxar ...	—12	—47	+9	+33	+51	—81	+9
		Dehree ...	—62	—46	+36	+34	+2	—54	+11
		Bhuboosh ...	—55	—73	+8	+43	+7	—100	—2
		Sasseram ...	—79	—86	+22	+54	+3	—100	+2
		Arrah ...	—64	—88	+42	+71	—33	—85	—2
	Gya ...	Aurungabad ...	—46	—57	+78	+63	+17	—73	+26
		Gya ...	—82	—50	—11	+169	+10	—83	+29
		Nowadah ...	—95	—67	+25	+131	—36	—100	+11
		Jehanabad ...	—84	—45	—1	+78	+16	—99	+10
	Patna ...	Patna ...	—55	—58	+43	+71	—60	—100	—2
		Dinapore ...	—42	—28	+50	+35	—59	—100	+1
		Behar ...	—31	—91	+61	+115	—43	—91	+22
		Barrh ...	—33	—73	+68	+77	+42	—100	+30
	Monghyr ...	Begooserai ...	—56	—64	+44	+77	+5	—100	+13
		Monghyr ...	+41	—81	+113	+32	+18	—99	+23
		Jamui ...	—51	—43	+7	+108	—39	—57	+14

Meteorological Division.	District	Station.	May.	June.	July.	August.	September.	October.	Total.
South Behar.—*concld.*	South Bhagulpore.	Bhagulpore ...	+87	—76	+105	+56	—22	—98	+19
		Banka ...	—77	—68	—3	+66	—45	—29	—10
	Sonthal Pergunnahs.	Rajmehal ...	—42	—75	—1	+121	—63	—100	—14
		Godda ...	—20	—24	+17	+64	—38	—72	—4
		Pakour ...	—38	—47	+61	+47	—11	—65	+5
		Nya Doomka ...	—53	—49	—8	+87	—60	—61	—7
		Deoghur ...	—60	—48	+24	+81	—36	—69	+3
		Jamtara ...	—20	—31	+28	+67	—9	—88	+13
Chutia Nagpur.	Hazaribagh	Pachamba ...	+20	—74	+[illegible]6	+84	—32	+29	+15
		Hazaribagh ..	—56	—80	+60	+91	—34	—69	+16
		Semtagurah ...	—85	—91	+76	+68	—12	—48	+15
		Mahudi Hills ...	—96	—55	+2	+7	+19	—77	—0
		Jhoomra Hills	—100	—73	—11	+110	—47	—78	—1
	Lohardugga	Lohardugga ...	—63	—63	+22	+27	—15	—85	—7
		Ranchee ...	+9	—60	+53	+69	—4	—89	+17
		Palamow ...	—83	—11	+48	+71	—1	—100	+20
	Singbhoom ...	Chyebassa ...	—37	—62	—14	+25	—37	—98	—21
	Manbhoom	Purulia ...	—21	—52	+79	+62	+17	—99	+20
		Gobindpore ..	—27	—68	—10	+18	—25	—72	—20

Meteorological Office, Bengal,
The 10th December 1888.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 12th January 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.				
		Western Districts.		
Burdwan Divn.	1	Burdwan Jan. 12 '89	Nil	Weather—cool and seasonable. *Rubbi* prospects continue good.
	2	Bankoora „ 12, '89	Nil	Weather—seasonable. *Rubbi* prospects continue fair in the Sudder, but not so favourable in the Bishenpore sub-division. Prices continue stationary at Sudder, but have slightly fallen at the Bishenpore mart.
	3	Birbhum „ 12 '89	Nil	Weather—cold. Threshing of *amun* paddy continues. Prospects of *rubbi* fair.
	4	Midnapur „ 12, '89	Nil	Weather—cold and dry. *Amun* harvesting completed. *Boro* being extensively cultivated. *Rubbi* crops doing well.
	5	Hugli „ 12 '89	Nil	Weather—seasonable. Condition and prospects of crops satisfactory.
		Howrah „ 14, '89	Nil	Weather—rather warm. South wind blowing. State and prospects of crops fair.
		Central Districts.		
Presidency Divn.	6	24-Perghs. Jan. 15, '89	Nil	Weather—hot for the season, with foggy mornings. Harvesting of *amun* paddy is practically over; outturn is expected to be from 8 to 11 annas. Prospects of other crops are fair. Sugar is being manufactured.
	7	Nuddea „ 12, '89	Nil	Weather—cool and seasonable. Prospects of *rubbi* crops good. Harvesting of *amun* paddy completed.
	8	Khoolna „ 12, '89	Nil	Weather—cool and clear. *Amun* is being reaped; outturn expected to be about 10 annas. Prospect of cold weather crop fair.
	9	Jessore „ 12, '89	Nil	Weather—cool with foggy mornings. *Amun* harvesting nearly completed. Other standing crops fair.
	10	Moorshedabad „ 12, '89	Nil	Weather—cold. Both *haimanti* rice and *kalai* are still being cut and threshed. *Rubbi* crops promising.
Rajshahye Divn.	11	Dinagepur „ 12, '89	Nil	Weather—seasonable. The rice harvest is nearly over, and yield has been better than was expected. The average outturn for the district will be over a ½ crop. *Rubbi* prospects fair.
	12	Rajshahye „ 12, '89	Nil	Weather—seasonable. Winter rice being harvested. Rain wanted for spring crops.
	13	Rungpur „ 12, '89	Nil	Weather—seasonable. Harvesting of *amun* is all but completed, with an average yield of 8 annas. Tobacco, pulse and wheat are doing well.
	14	Bogra „ 12, '89	Nil	Weather—seasonable; mornings foggy. The harvest of winter rice is still going on. Sugarcane and *rubbi* crops are growing. Potatoes are being sown. Rice is selling at 20 seers per rupee.
	15	Pubna „ 12, '89	Nil	Weather—fine. Outturn of *amun* only 8 annas on the average. Sugarcane moderate. *Rubbi* crops bad. Rain wanted.
	16	Darjeeling „ 12, '89	Nil	Weather—still unusually dry. Crops doing well.
	17	Julpigoree „ 12, '89	Nil	Weather—seasonable. Harvesting of *amun* nearly completed. Outturn is estimated at about 10 annas. Tobacco and other crops doing fairly well. Common rice selling at 18 seers per rupee.
		Eastern Districts.		
Dacca Divn.	18	Dacca Jan. 12, '89	Nil	Weather—very cold and fine. *Boro* paddy being planted. Pulses being gathered. Cutting of sugarcane continues. Prospects of winter crops good.
	19	Furreedpur „ 12, '89	Nil	Weather—seasonable and fine. No change of any sort to report. The *rubbi* prospects are good.
	20	Backergunge „ 11, '89	Nil	Weather—seasonable. Prospects of crops fair. Harvesting of *amun* still going on; outturn 12 annas.
	21	Mymensingh „ 11, '89	Nil	Weather—very cold for the last two or three days. Prospects of crops good.
Chittagong Divn.	22	Chittagong „ 15, '89	Nil	Weather—seasonable. *Amun* harvested; outturn moderate. Winter crops thriving. Prices steady.
	23	Noakholly „ 11, '89	Nil	Weather—seasonable. Reaping of *amun* completed. *Rubbi* crops getting on well.
	24	Tipperah „ 10, '89	Nil	Weather—dry and cold. Winter rice crop has yielded a very good outturn generally. *Rubbi* crops are coming on nicely.
	25	Chittagong Hill Tracts. „ 8, '89	Nil	Weather—very cold and foggy in the morning throughout the week. Mustard, tobacco, chillies, and other winter crops progressing. Prospects not good for want of rain.
		Hill Tipperah „ 9, '89	Nil	Weather—seasonably cold. Reaping of *amun* paddy finished. Prospects chillies, tobacco and mustard fair.

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR				
Patna Divn.				
26	Patna	Jan. 12, '89	Nil	Weather—cold. Prospects of *rubbi* and poppy continue favourable. Prices stationary.
27	Gya	„ 12, '89	Nil	Weather—cold and seasonable. Paddy is being harvested and threshed. Prospects of *rubbi* and poppy promising.
28	Shahabad	„ 12, '89	Nil	Weather—rather warm. Paddy is being threshed. Prospects of *rubbi* crops fair, but rain wanted. Poppy doing well. Prices stationary.
29	Durbhunga	„ 12, '89	Nil	Weather—somewhat cloudy for the last two days. Rain much wanted especially in the north. *Rubbi* suffering in that part, but poppy and tobacco good. Prices slightly easier. Common rice selling at 15½ seers per rupee in Durbhunga.
30	Mozufferpur	„ 12, '89	Nil	Weather—cold and bright. Poppy doing well everywhere. Prospects of *rubbi* favourable in the Sudder and Hajeepur sub-divisions, and fair in South Sitamarhi, but unfavourable in North Sitamarhi. Rain would do good to all crops.
31	Sarun	„ 12, '89	Nil	Weather—occasionally cloudy, but no rain. Poppy and *rubbi* crops progressing satisfactorily and give excellent prospects. Lands are being prepared for indigo. Prices of food-grains falling.
32	Chumparun	„ 12, '89	Nil	Weather—too cold and fair. Prospects of both *rubbi* and poppy remain unchanged; a shower of rain will do immense good. *Arhar* doing well. Prices rising gradually, and affecting labouring classes in the distressed area.
Bhagulpore Divn.				
33	Monghyr	Jan. 12, '89	Nil	Weather—cold and seasonable. *Rubbi* crops doing well. *Kurthi* being harvested. Prices stationary.
34	Bhagulpur	„ 12, '89	Nil	Weather—seasonable. Outturn of late rice seems to be up to estimates already given. *Rubbi* doing fairly, but rain would now do good. *Cheena* being sown.
35	Purneah	„ 12, '89	Nil	Weather—fair and cold. *Rubbi* crops doing fairly well. *Aghani* outturn about an eight-anna crop.
36	Maldah	„ 12, '89	Nil	Weather—fair and cold Slight fogs. *Kalai* reaping continues with very good results. *Rubbi* crops thriving, but require rain.
37	Sonthal Perghs.	„ 12, '89	Nil	Weather—cold and clear. *Dhan* harvest nearly over. State of winter crops fair. Sugarcane is being cropped.
ORISSA				
Orissa Divn.				
38	Cuttack	Jan. 11, '89	Nil	Weather—seasonable. Reaping of *sarad* rice and *rubbi* in progress Price of rice stationary.
39	Pooree	„ 10, '89	Nil	Weather—dry and clear. Rain is wanted for *rubbi* crops. Harvesting of winter rice (late *sarad*) continues. *Dalua* crop doing well. Common rice 19 seers 7 chittacks per rupee in the Sudder sub-division and 20 seers 10 chittacks in the Khoorda sub-division.
40	Balasore	„ 11, '89	Nil	Weather—seasonable. *Sarad* rice is being threshed with an average outturn of nearly 10 annas. *Rubbi* crops yielding well.
CHOTA NAGPORE.				
South-West Frontier Agency.				
Chota Nagpore Divn.				
41	Hazaribagh	Jan. 11, '89	Nil	Weather—seasonable, but slightly cloudy to-day (11th). *Rubbi* beginning to suffer for want of rain. Poppy doing well; weeding and irrigation in progress. Grounds being prepared for sugarcane. Prices stationary.
42	Lohardugga	„ 12, '89	Nil	Weather—somewhat warm and cloudy. Rain urgently wanted for *rubbi* crops. Prices fluctuating. Coarse rice is rather dear in Palamow sub-division.
43	Singbhoom	„ 11, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops have not improved. Prices almost the same as in last week.
44	Manbhoom	„ 12, '89	Nil	Weather—seasonable. Sugarcane pressing in progress; outturn varies from 14 annas in the south and west to 8 annas in the north. Prospects of *rubbi* moderate.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 15th January 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 6th to 12th January 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan.	6th	132·0	8·8	30·093	64·9	78·0	22·7	55·3	60·7	0·480	57·8	79	WSW and calm ...	34	Nil	Clear, ≡, ⌓.
,,	7th	131·5	9·0	·111	65·3	78·8	23·5	55·3	59·3	·429	54·6	72	N by W and calm ..	25	,,	Chiefly clear, ≡, ⌓.
,,	8th	131·6	8·8	·094	63·1	76·3	23·6	52·7	56·5	·371	50·7	68	NNW and calm ...	34	,,	Clear, ≡, ⌓.
,,	9th	131·2	9·0	·066	61·1	74·5	24·7	49·8	54·3	·335	48·0	66	WNW and calm .	28	,,	Chiefly clear, ≡, ⌓.
,,	10th	132·5	9·4	·063	62·4	76·5	27·0	49·5	55·4	·352	49·2	65	Calm and variable..	26	,,	Clear, ≡, ⌓.
,,	11th	134·5	9·4	29·992	65·1	78·4	26·1	52·3	60·7	·430	57·8	78	WSW, SW by S and calm.	76	,,	Clear, ≡, ⌓.
,,	12th	135·4	9·4	·946	71·1	83·5	21·1	62·4	66·8	·605	64·4	79	SW by S, WNW and SW.	82	,,	Chiefly clear ⌓.

	Inches.
The mean pressure of the seven days	30·057
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	30·020
	Hours.
The total number of hours of bright sunshine	63·8
The maximum possible number of hours of sunshine	75·6
	°
The mean temperature of the seven days	64·7
The average temperature of the corresponding period for 24 years, S. G.'s Office	67·0
The extreme variation of temperature	34·0
The maximum temperature	83·5
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	72
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	71
	Inches.
The total fall of rain from 6th to 12th January 1889	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·07
The total fall from 1st to 12th January 1889	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office ..	0·11

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, ≡ fog.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 14th January 1889.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure: Mean barometric height, 10 A.M.	Air pressure: Mean reduced to sea-level.	Air pressure: Variation from mean.	Wind: Prevailing direction.	Wind: Mean wind velocity.	Temperature: Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 10 A.M. temperature.
Orissa.	Pooree	Pooree	30·122	30·135	—	NNW	106	82·7	10th Jan	55·4	10th Jan	79 1	59 4	69·3	—	64·3
		Gopalpore	30·101	30·151	+·018	NNW	213	80·2	8th & 10th Jan.	59·0	10th ,,	78·2	61·6	69·9	+0·3	67·1
		False Point	30·113	30·136	+·032	North-westerly.	137	80 9	8th ,,	54·0	10th ,,	78·4	55·9	67·2	—0·5	62·9
	Cuttack	Cuttack	30·064	30·149	+·055	Calm	9	86·4	7th ,,	53·0	10th ,,	84·5	57·4	71·0	—0·3	61·8
	Balasore	Balasore	30·090	30·152	+·021	NNW	81·8	83 9	8th ,,	49 4	9th & 10th Jan	81 3	52·0	66 7	+0·6	57 0
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·120	30·147	+·042	NNE	165	78 2	8th & 9th Jan.	54·3	9th ,,	76 0	57·9	67 0	—0·1	62 3
	Midnapore	Midnapore	29·989	30·150	+·019	Calm	40·9	84·3	8th ,,	49 2	9th & 10th Jan	82 4	50·9	66·7	+1·3	59·0
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·122	30·145	+·029	Calm	27	79·0	8th ,,	49 3	10th ,,	76 9	52·4	64·7	+0 5	56 4
	Burdwan	Burdwan	30 037	30·144	+·017	Westerly	18 9	81 5	7th ,,	44 0	7th ,,	79 7	47·9	63·8	—1·7	56·0
	Bankoora	Bankoora	29·823	30·148	—	NW	46	82 1	6th & 8th Jan.	47 9	10th ,,	80 2	49 9	65 1	—	55·1
	Beerbhoom, West Burdwan	Raneegunge*	29·792	30·125	+·034	WNW	47·1	81 5	6th ,,	49·2	10th ,,	79 3	50·4	64·9	—0·3	54·3
	Moorshedabad	Berhampore	30·070	30·141	+·046	Calm	28 4	78·6	8th ,,	48 1	10th ,,	77 1	49 5	63·3	—1·2	55·3
	Nuddea	Krishnaghur	30·095	30·165	+·070	WNW	53·6	78 9	7th ,,	44 3	10th ,,	78 1	47 1	62 6	—1 9	54·9
	Jessore, Khoolna	Jessore	30·109	30·144	+·060	Calm	32·5	79·7	7th & 8th Jan	46 4	10th ,,	78 1	49·4	63·8	—0·6	55 6
East Bengal.	Chittagong	Chittagong	30·032	30·127	+·042	Calm	30 7	79 0	7th ,,	52 7	10th & 11th Jan.	77 8	54·7	66 3	+0 7	58·3
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·115	30·128	+·073	Calm	29·0	78 8	8th Jan.	48 6	10th	76·6	51·0	63·8	—0·2	59 5
	Noakholly	Noakholly	30·064*	30·110*	+·907*	Calm	?	79 5	8th ,,	46 0	10th ,,	77·5	49 4	63·5	—0·9	57 4
	Furreedpore	Furreedpore	30·097	30·140	+·072	Calm	32	73 8	5th & 7th Jan	46 0	10th ,,	72·5	49 3	60 9	—3·1	54·7
	Dacca	Dacca	30·100	30·124	+·049	Westerly	39·1	80 1	8th ,,	49·2	10th ,,	78 4	52 5	65 4	+0·1	59·0
	Commillah	Commillah	30 084	30·122	+·057	N	11·2	79 9	8th ,,	48 1	10th ,,	78 8	51 0	64·9	+0·6	57·1
	Mymensingh	Mymensingh	30 004	30·125	+·060	North easterly.	31·4	58 3	5th ,,	47 5	10th ,,	53 5	51 5	53·5	—9 4	55·6
North Bengal.	Bogra	Bogra	30 050	30 117	+·051	Calm	22 0	78 8	8th ,,	45 9	10th ,,	77 3	49·0	63 2	—1·8	54·3
	Pubna	Serajgunge	30 066	30 115	+·043	North westerly	23·4	78 4	8th ,,	44·5	9th ,,	77 2	48·0	62 0	—0·6	54·8
	Rajshahye	Rampore Beauleah.	30·056	30·130	+·069	N	46·8	76·9	8th ,,	44 2	10th ,,	76 0	47 9	62 0	—0 2	56·6
	Maldah	Maldah	30 077	30·165	—	NW	43 9	79 0	8th ,,	44 2	10th ,,	77 9	47 6	62 8	—	61 5
	Dinagepore	Dinagepore	30 012	30·142	+·057	SW	29	77 1	6th & 7th Jan.	44 4	10th ,,	76·3	47 3	61 8	+0·3	54·4
	Rungpore	Rungpore	29 990	30·134	—·011	NNW & Calm,	30	77·2	5th ,,	44 8	10th ,,	76 4	46 9	61 7	+0·3	53·3
	Julpigoree, Cooch Behar	Julpigoree	29 520	30 136	—·016	NE	24 9	57 9	8th ,,	47 0	9th ,,	55·7	50·2	53·0	—6·9	55·4
	Darjeeling Hill Tracts	Darjeeling	23·034	—	0	Easterly	61	52·3	5th ,,	34 3	10th ,,	47·4	35 5	41 5	+0·5	30·3
North Behar.	Purneah, North Bhagulpore	Purneah	30·004	30·141	+·014	Calm	35·3	76·7	8th & 9th Jan.	?	?	75 8	?	?	?	50·3
	Mozufferpore	Mozufferpore	Observation suspended.													
	Durbhunga	Durbhunga	29 959	30·139	+·022	WSW	63	72·9	8th Jan.	49 3	10th ,,	70·8	51·8	61·3	—0·6	53·7*
	Chumparun	Motihari	29·919	30·164	+·069	Calm	Out of order	76 7	7th ,,	40 0	8th ,,	57·6?	43·8	50·7?	—9·1?	55·2?
	Sarun	Chupra	29·958*	30·166*	+·084*	Calm	18 1	63·0	7th ,,	45·1	10th ,,	58·1	48·5	53·3	—8 0	57·3
South Behar.	Shahabad	Dehree	29·772	30·156	+·040	SW	74·5	79·3	7th & 11th Jan	49·0	5th ,,	77·9	50·6	64·3	+2·7	53·9
		Buxar	29·897	30·159	+·044	WSW	75·5	[illegible]	8th ,,	46·9	5th ,,	76·2	48 3	62·3	+0·8	54·4
		Arrah	29 929	30 143	+·040	WSW	24·1	76 8	8th ,,	43 9	10th ,,	74 9	46 6	60 8	+0·1	50·7
	Gya	Gya	29·771	30·179	+·053	SSE	55·8	78·0	11th ,,	46·9	5th ,,	76 5	49 6	63·0	+0·8	55·0
	Patna	Bankipore	29 957	30·155	+·052	SW	27·5	75·7	8th & 10th Jan.	47 0	11th ,,	74 3	48 3	61·3	0	53·8
	South Bhagulpore, Monghyr	Bhagulpore	29·974	30·146	+·057	NW	46	75·3	8th ,,	45·5	10th ,,	73 7	47 6	60 7	—0·7	54·6
	Sonthal Pergunnahs	Doomka	29·614	30 153	—0·09?	Calm	34·9	78·5	8th ,,	44·0	10th ,,	76 8	47·0	61 9	—0·8	52·3
Chota Nagpore.	Hazaribagh	Hazaribagh	28·069	30·177	+ ·[illegible]	WNW	160·6	77·0	7th ,,	46 4	9th ,,	75 1	49 7	62 4	+1·5	57·9
	Lohardugga, Maunbhoom	Ranchee	27 956	30·154	+·039	Calm	123·1	78·0	6th ,,	45·4	9th ,,	75·7	49·1	62·4	+2·2	60·0
	Singbhoom	Chyebassa	29·960	30·176	+·059	Calm	8·7	83·0	7th ,,	47·3	9th ,,	81·6	50·2	65 9	+0·9	55·9

* Means of six days.

Explanation.—Summary — The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number [illegible] determined from the returns sent in by the sub-divisional station for the period in question during the past 24 [illegible] are the numerical means of [illegible] in that district [illegible] stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

...for the week ending Friday, the 11th of January 1889.

Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
86	1·9	Nil	Nil	0·01	Nil	0·02	—0·02	*44·12	55·38	—11·26	0·0	0·1	Pooree	Pooree	Orissa.
71	1·8	Nil	—	—	--	—	—	—	—	—	—	—	Gopalpore		Orissa.
90	1·1	Nil	—	—	--	—	—	—	—	—	—	—	False Point		Orissa.
80	4·1	Nil	Nil	0·02	Nil	0·04	—0·04	51·79	51·68	+0·11	0·0	0·1	Cuttack	Cuttack	Orissa.
83	0	Nil	Nil	0·04	Nil	0·10	—0·10	52·87	52·99	—0·12	0·0	0·1	Balasore	Balasore	Orissa.
95	2·6	Nil	Nil	0·05	Nil	0·09	—0·09	54·99	62·05	—7·06	0·0	0·1	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
67	0·3	Nil	Nil	0·00	Nil	0·16	—0·16	61·49	51·22	+10·27	0·0	0·2	Midnapore	Midnapore	South-West Bengal.
93	0·4	Nil	Nil	0·08	Nil	0·15	—0·15	62·19	51·31	+10·88	0·0	0·2	Calcutta	24-Pergunnahs; Howrah; Hooghly	South-West Bengal.
60	0·6	Nil	Nil	0·02	Nil	0·07	—0·07	55·02	40·38	+9·24	0·0	0·1	Burdwan	Burdwan	South-West Bengal.
65	0·4	Nil	Nil	0·07	Nil	0·07	—0·07	51·73	51·96	—0·23	0·0	0·2	Bankoora	Bankoora	South-West Bengal.
66	0	Nil	Nil	0·10	Nil	0·10	—0·10	56·49	51·27	+5·22	0·0	0·2	Raneegunge	Beerbhoom; West Burdwan	South-West Bengal.
84	0	Nil	Nil	0·10	Nil	0·10	—0·10	46·82	50·22	—3·40	0·0	0·2	Berhampore	Moorshedabad	South-West Bengal.
84	0·4	Nil	Nil	0·07	Nil	0·08	—0·08	53·45	48·88	+4·57	0·0	0·2	Krishnaghur	Nuddea	South-West Bengal.
90	0·6	Nil	Nil	0·07	Nil	0·12	—0·12	44·89	52·86	—8·07	0·0	0·2	Jessore	Jessore; Khoolna	South-West Bengal.
91	0	Nil	Nil	0·05	Nil	0·08	—0·08	125·77	113·19	+12·58	0·0	0·2	Chittagong	Chittagong	East Bengal.
			Nil	0·10	Nil	0·16	—0·16	72·40	81·12	—8·72	0·0	0·3	Demagiri	Chittagong Hill Tracts	East Bengal.
82	0	Nil	Nil	0·18	Nil	0·24	—0·24	71·82	76·58	—4·76	0·0	0·3	Barrisal	Backergunge	East Bengal.
92	0·3	Nil	Nil	0·16	Nil	0·37	—0·37	105·76	106·84	—1·08	0·0	0·3	Noakholly	Noakholly	East Bengal.
91	0	Nil	Nil	0·07	Nil	0·10	—0·10	47·23	55·38	—8·15	0·0	0·2	Furreedpore	Furreedpore	East Bengal.
86	0·3	Nil	Nil	0·08	Nil	0·11	—0·11	55·43	59·54	—4·11	0·0	0·2	Dacca	Dacca	East Bengal.
93	0	Nil	Nil	0·16	Nil	0·22	—0·22	61·71	68·89	—7·18	0·0	0·3	Commillah	Tipperah	East Bengal.
95	0	Nil	Nil	0·08	Nil	0·10	—0·10	66·35	67·04	—0·69	0·0	0·2	Mymensingh	Mymensingh	East Bengal.
86	0	Nil	Nil	0·05	Nil	0·06	—0·06	43·63	56·93	—13·30	0·0	0·2	Bogra	Bogra	North Bengal.
88	0	Nil	Nil	0·06	Nil	0·07	—0·07	40·72	53·03	—12·31	0·0	0·2	Serajgunge	Pubna	North Bengal.
79	0·1	Nil	Nil	0·18	Nil	0·18	—0·18	45·00	53·56	—8·56	0·0	0·2	Rampore Beauleah	Rajshahye	North Bengal.
81	0	Nil	Nil	0·10	Nil	0·10	—0·10	40·31	53·85	—13·54	0·0	0·2	Maldah	Maldah	North Bengal.
86	0	Nil	Nil	0·05	Nil	0·06	—0·06	45·61	57·09	—11·48	0·0	0·2	Dinagepore	Dinagepore	North Bengal.
93	0	Nil	Nil	0·09	Nil	0·09	—0·09	55·86	73·44	—17·58	0·0	0·2	Rungpore	Rungpore	North Bengal.
94	0	Nil	Nil	0·02	Nil	0·02	—0·02	85·99	110·80	—24·81	0·0	0·1	Julpigoree	Julpigoree; Cooch Behar	North Bengal.
91	5·7	Nil	Nil	0·09	Nil	0·10	—0·10	98·08	120·59	—22·51	0·0	0·3	Darjeeling	Darjeeling Hill Tracts	North Bengal.
88	0	Nil	Nil	0·05	Nil	0·07	—0·07	47·79	58·24	—10·45	0·0	0·2	Purneah	Purneah; North Bhagulpore	North Behar.
			Nil	0·08	Nil	0·12	—0·12	39·39	43·02	—3·63	0·0	0·2	Mozufferpore	Mozufferpore	North Behar.
80*	0·3	Nil	Nil	0·04	Nil	0·12	—0·12	38·67	44·19	—5·52	0·0	0·1	Durbhunga	Durbhunga	North Behar.
80	1·0	Nil	Nil	0·02	Nil	0·06	—0·06	40·89	46·19	—5·30	0·0	0·1	Motihari	Chumparun	North Behar.
83	0·1	Nil	Nil	0·06	Nil	0·07	—0·07	37·43	42·38	—4·95	0·0	0·2	Chupra	Sarun	North Behar.
75	0	Nil											Dehree	Shahabad	South Behar.
64	0·9	Nil	Nil	0·09	Nil	0·12	—0·12	41·91	39·51	+2·40	0·0	0·2	Buxar		South Behar.
80	0·1	Nil											Arrah		South Behar.
61	1·1	Nil	Nil	0·09	Nil	0·10	—0·10	49·46	41·08	+8·38	0·0	0·2	Gya	Gya	South Behar.
74	0·6	Nil	Nil	0·09	Nil	0·12	—0·12	46·71	40·89	+5·82	0·0	0·2	Bankipore	Patna	South Behar.
74	0·1	Nil	Nil	0·06	Nil	0·07	—0·07	48·28	42·69	+5·59	0·0	0·2	Bhagulpore	South Bhagulpore; Monghyr	South Behar.
74	0	Nil	Nil	0·09	Nil	0·10	—0·10	52·24	50·53	+1·71	0·0	0·2	Doomka	Sonthal Pergunnahs	South Behar.
45	1·1	Nil	Nil	0·19	Nil	0·21	—0·21	56·11	50·08	+6·03	0·0	0·2	Hazaribagh	Hazaribagh	Chota Nagpore.
49	1·1	Nil	Nil	0·21	Nil	0·23	—0·23	50·24	48·49	+1·75	0·0	0·3	Ranchi	Lohardugga	Chota Nagpore.
			Nil	0·09	Nil	0·09	[illegible]	[illegible]	46·55	+0·20	0·0	0·2		Manbhoom	Chota Nagpore.
66	0	Nil	Nil	0·00	Nil	0·12	—0·12	40·44	50·[illegible]	—10·52	0·0	0·3	Chyebassa	Singbhoom	Chota Nagpore.

* Six days.

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. ... denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ... years. The means of the distri... are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisions ...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of January 1889.

Meteorological division.	District.	Station.	Saturday, 5th January 1889.	Sunday, 6th January.	Monday, 7th January.	Tuesday, 8th January.	Wednesday, 9th January.	Thursday, 10th January.	Friday, 11th January.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
SOUTH-WEST BENGAL.	Pooree	Pooree	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	41·07	51·04
		Khurdah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·01	44·38	56·20
		Banpur	...	...	...	...	...	...	...	Nil	Nil	Nil	0·03	36·78	50·38
		False Point	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	54·24	64·20
		Gop	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	50·21	46·69
		Banki	...	...	...	...	...	...	...	Nil	Nil	Nil	0·01	43·72	50·56
		Cuttack	...	...	...	...	...	...	...	Nil	Nil	Nil	0·01	52·68	56·02
		Kendrapara	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	45·21	52·95
		Jajpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	61·15	53·71
		Dharmsala	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·98	?
		Salipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Balasore	Chandbali	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	51·05	51·83
		Bhuddruck	...	...	...	...	...	...	...	Nil	Nil	Nil	0·03	48·51	51·30
		Sorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·01	49·62	50·79
		Balasore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	56·98	57·37
		Jellasore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	55·45	52·41
		Baripodah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	54·18	53·67
	Midnapore	Contai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	55·70	61·07
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	52·09	66·81
		Tumlook	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	64·80	50·84
		Midnapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	63·04	48·48
		Ghattal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	56·03	54·24
		Kukrahaty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·28	?
		Heria	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52·11	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·91	?
		Garbeta	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·41	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	57·18	58·04
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·55	?
		Alipore Jail	...	...	...	...	...	...	...	Nil	Nil	Nil	0·29	61·95	55·16
		Barrackpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	61·56	47·87
		Dum-Dum	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	63·74	51·31
		Barasat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	64·53	48·82
		Buseerhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	51·31	54·13
	Howrah	Howrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	65·57	51·72
		Mohesreka (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	58·78	51·70
	Hooghly	Serampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	66·68	49·79
		Hooghly	...	...	...	...	...	...	...	Nil	Nil	Nil	0·05	66·78	47·79
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	61·02	54·69
	Burdwan	Culna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	60·27	43·80
		Burdwan	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	[illegible]	47·53
		Cutwa	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	60·08	47·57
		Raneegunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·09	57·00	46·20
		Mankur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·19	?
	Bankoora	Bankoora	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	48·56	51·00
		Bishenpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	53·34	51·24
		Maliara	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	49·98	51·61
		Khatra	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	55·02	53·76
		Indas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·26	?
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·44	?
		Anda	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57·81	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·17	?
		Raipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·17	?
		Sonamukhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45·76	?
	Beerbhoom	Sh. Soory	...	...	...	...	...	...	...	Nil	Nil	Nil	0·09	53·51	53·34
		Hetampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	47·18	53·89
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	68·41	51·08
		Bolpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	61·55	?
		Muraroi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Nuddea	Ranaghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	62·51	46·58
		Kishnaghur	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	68·35	45·58
		Chooadanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	52·23	50·88
		Meherpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	47·90	47·32
		Kooshtea	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	36·23	54·13
	Khoolna	Satkhira	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	38·24	54·78
		Bagirhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	50·37	61·00
		Khoolna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	48·49	54·46
	Jessore	Narail	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	29·90	45·63
		Jessore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	56·51	53·88
		Jhenidah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	35·94	53·08
		Magoorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	42·90	48·11
		Bongong	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	49·00	51·46
	Moorshedabad	Kandi	...	...	...	...	...	...	...	Nil	Nil	Nil	0·05	50·91	49·76
		Berhampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	41·05	50·91
		Lalbagh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	46·23	50·68
		Azimgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	?	50·74
		Jungipore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	45·48	48·76
		Jalgola	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	50·75	50·79
		Jiagunge	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·47	?
		Akhrigunj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·31	?
		Patkabari	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43·79	?
EAST BENGAL	Chittagong	Cox's Bazar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	140·44	133·18
		Chittagong	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	105·08	98·40
		Kutubdia	...	...	...	...	...	...	...	Nil	Nil	Nil	?	116·99	?
		Satkanya	...	...	...	...	...	...	...	Nil	Nil	Nil	?	91·41	?
	Chittagong Hill Tracts.	Rangamati	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	71·85	83·29
		Ruma	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	60·95	77·96
	Backergunge	Patuakhally	...	...	...	...	...	...	...	Nil	Nil	Nil	0·78	85·60	87·10
		Perozepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	61·30	69·68
		Burrisal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	[illegible]	67·28
		Bhola	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	74·97	81·21

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of January 1889—*contd.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 5th January 1889.	Sunday, 6th January.	Monday, 7th January.	Tuesday, 8th January.	Wednesday, 9th January.	Thursday, 10th January.	Friday, 11th January.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
[East] Bengal—*concld.*		*Gournaddi* ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·28	?
		Bauphal ..	...	...	...	...	...	...	...	Nil	Nil	Nil*	?	98·35	?
	Noakholly	Noakholly	...	...	...	...	...	...	...	Nil	Nil	Nil	0·26	106·99	107·46
		Fenny .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·47	104·53	106 19
		Harishpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	129 82	?
		Ramganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	84·28	?
	Furreedpore	Madaripore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	45·71	57·39
		Furreedpore..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 03	52·01	55 95
		Goalundo	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	43 98	52 61
	Dacca ...	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	61·04	69·74
		Dacca	...	...	...	...	...	...	...	Nil	Nil	Nil	0 11	52 36	58 14
		Naraingunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0 07	62·60	59 36
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	45·74	49·73
		Joydebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58 88	?
	Hill Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 21	53·48	61·24
	Tipperah	Comilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	68 91	75·47
		Chandpore .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	56 55	77 60
		Brahmunberia	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	68 77	60 72
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·16	?
		Nasirnagar.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58 34	?
		Daudkandi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64 18	?
		Kasba ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·28	?
		Laksham ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	78·02	?
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0 17	82·63	69·37
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0 11	37 84	55·08
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	69·21	73 62
		Jamalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	64 65	64 85
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	Nil	0·05	77·59	71·08
		Subornakhally	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·76	?
		Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	107·91	?
		Dewanganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·72	?
North Bengal.	Pubna	Pubna ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 09	39 66	53 58
		Seraigunge ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·05	41·77	52 39
	Bogra	Sherpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·03	41 23	57·48
		Nowkhilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·05	49 23	54·42
		Bogra ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	40 85	60·27
		Panchbibi ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·03	43·21	55 48
	Rajshahye	Beauleah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 13	31·07	52 64
		Nattore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	58·93	54·53
		Naogaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35 97	?
		Lalpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38 75	?
		Mande ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29 64	?
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 10	47·06	51·38
		Chanchal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 10	32 93	56 29
		Gajol ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36 99	?
		Sibganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45·66	?
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	37 44	58·19
		Churamon	...	...	...	...	...	...	...	Nil	Nil	Nil	0 01	45 07	52·82
		Raigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0 01	49 17	58 73
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0 06	56 80	63 [illegible]
		Baloorghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0 06	38 67	53 16
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·98	?
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	45 25	61·38
		Rungpore .	...	...	...	...	...	...	...	Nil	Nil	Nil	0 11	51 62	74 18
		Kurigram	...	...	...	...	...	...	...	Nil	Nil	Nil	0 05	75 54	73 08
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	52·95	84 80
		Ulipore .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·40	?
	Julpigoree .	Julpigoree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	103·76	117 18
		Alipore Doar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	79 68	?
		Fallacotta .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	90 07	?
		Debiganj .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60 34	?
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	Nil	Nil	Nil	0 04	89·79	92 57
		Cooch Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0 02	89 26	11[illegible] 11
		Mickligunge	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	74 60	107 79
		Matabhanga .	...	...	...	...	...	...	...	Nil	Nil	Nil	0 01	72 64	116 49
	Darjeeling Hill	Buxa	...	...	...	...	0 01	...	...	1	0·01	0·01	0 24	155 36	191 [illegible]
		Silliguri	...	...	...	...	...	...	...	Nil	Nil	Nil	0 01	81 57	103 05
		Darjeeling ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 11	87 17	108 21
		Kalimpong .	...	...	...	...	...	...	...	Nil	Nil	Nil	0 03	68 22	82 43
North Behar	Purneah	Kissengunge..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 09	47 39	69 97
		Arrareah	...	...	...	...	...	...	...	Nil	Nil	Nil	0 11	50·92	63·61
		Purneah	...	...	...	...	...	...	...	Nil	Nil	Nil	0 04	43·69	61 00
		Gondwara ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Mattari	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Kaliaganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57 [illegible]	?
	North Bhagulpore.	Maddepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	55 61	49 29
		Soopool ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·03	41 1[illegible]	47 90
		Protabganj .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	37 78	?
	Durbhunga .	Tajpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	40·10	42·74
		Durbhunga ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 02	35·31	45·48
		Madhubani ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	40 74	44 60
		Bahera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51·00	?
		Roshera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	48·8[illegible]	?
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	31 71	42·74
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	40·65	45 07
		Hajipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	46·60	41·53
		Paru ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·72	?
		Mahua ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36 04	?
		Sitahar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28·37	?
		Pupri ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	23·16	?
	Chumparun...	Motihari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	36·14	44·17
		Bettiah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 05	45 58	48·11
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52·00	?
		Burhurwa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	33 66	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of January 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 5th January 1889.	Sunday, 6th January.	Monday, 7th January.	Tuesday, 8th January.	Wednesday, 9th January.	Thursday, 10th January.	Friday, 11th January.	Total. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·04	36·00	43·[illegible]
		Sewan ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·08	40·58	43·32
		Chuprah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	35·09	40·24
SOUTH BEHAR	Shahabad ..	Buxar .	......	......	......	......	......	......	......	Nil	Nil	Ni	0·10	40·74	37·98
		Dehree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	43·48	38·42
		Bhuboosh ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	40·17	40·83
		Sasseram ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·11	41·78	40·29
		Arrah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	43·44	39·79
		Mohania ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	34·08	?
	Gya ..	Aurungabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·06	53·32	42·34
		Gya ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·08	[illegible]	42·16
		Nowadah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	47·85	39·51
		Jehanabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·17	45·29	40·15
		Arwal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·59	?
		Daudnagar ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·30	?
		Sherrghati ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	32·84	?
		Rajauli ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	27·94	?
		Pakri Barawan	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·08	?
	Patna ..	Patna ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·15	39·62	41·55
		Dinapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	41·70	41·13
		Behar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	51·06	41·45
		Barrh ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	53·57	39·44
		Bickram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	38·00	?
		Hilsa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·81	?
	Monghyr	Begooserai ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	46·07	39·68
		Monghyr ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	53·01	40·09
		Jamui ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	48·81	42·32
		Gogri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·59	?
		Sheikpura ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·19	?
	South Bhagulpore	Bhagulpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·04	53·00	41·77
		Banka ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	39·88	44·31
		Kolyong ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·38	?
	Sonthal Pergunnahs	Rajmehal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·02	45·36	51·89
		Godda ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	47·64	44·90
		Pakour	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	61·53	55·08
		Nya Doomka	......	......	......	......	......	......	......	Nil	Nil	Nil	0·16	51·27	[illegible]
		Deoghur .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	51·89	49·81
		Jamtara ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·15	53·51	47·98
		Mohagama ..	......	......	......	......	......	......	......	Nil	Nil	Nil		?	?
		Nanihat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	28·22	?
CHUTIA NAGPUR.	Hazaribagh ..	Pachamba (Giridi).	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	55·42	47·17
		Hazaribagh ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·17	54·52	47·65
		Semtagurah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·17	54·83	46·46
		Mahudi Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	54·51	47·00
		Jhoomrah Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	62·15	62·06
		Barhi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	49·05	?
		Chatra ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	[illegible]	?
		Karagdeha ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	[illegible]	?
		Ramghur ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	[illegible]	?
	Lohardugga ..	Lohardugga ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·15	46·47	51·98
		Ranchi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	52·82	51·58
		Palamow ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	51·45	42·73
		Silli ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Balumat ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·42	?
		Hosseinabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Garwah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43·08	?
	Singbhoom	Chyebassa	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	40·14	51·11
		Chakradharpore.	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·95	?
		Ghatsilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·39	?
		Bahuragura	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·55	?
	Manbhoom	Purulia .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	56·51	48·61
		Gobindpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	36·18	44·65
		Raghunathpore.	......	......	......	......	......	......	......	Nil	Nil	Nil	?	52·80	?
		Barrabhoom .	......	......		......	......	......	......	Nil	Nil	Nil	?	50·64	?
		Jhalda ...													
		Chas ...													

Explanation.—...... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 15*th January* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 11TH OF JANUARY 1889.

DURING the week fine weather has again prevailed over the whole reporting area. The very high pressure over South Bengal, and the northern part of the Bay, which obtained during the early part of the week, was accompanied by light irregular breezes, and almost cloudless skies. These light winds had in Bengal and over the northern half of the Bay a westerly tendency, but further south, strong north-easterly winds have prevailed. From the middle of the week, the abnormally high pressure began to give way, and, with the exception of Thursday, the 10th, pressure continued to fall to the end of the week, the fall on the last day being rapid, and at some stations almost equalling a tenth of an inch. The temperature changed by small irregular amounts, humidity increased, and light variable winds became common in Bengal and over the Bay. Pressure was above the normal the first three days of the week, but during the latter half, the continued falls resulted in a defect. Temperature has been about normal, and humidity high. Slight clouds have been reported from some districts of Bengal, but generally fine cloudless weather has prevailed with light variable north-westerly winds, high pressure, and fairly steady temperature.

Pressure.—On Saturday, the first day of the week, a general small rise took place, and pressure was almost uniform over the province and the Bay. On Sunday a rapid rise began, the greatest changes being reported from the East Coast stations and those of North-East Bengal. The rise continued till Monday, the 7th, when abnormally high pressures were recorded in South-West Bengal and Orissa in some cases exceeding 30·2 inches. Gradients over the Bay became very steep. Afterwards the pressure began to fall, and this fall continued, with the exception of Thursday, the 10th, to the end of the week. The fall was most rapid at the head of the Bay. The total change during the week has been very small, and but for the difference of pressure in the Bay being not quite so large as they were, the pressure distribution at the end of this week is almost identical with that at the close of the preceding week.

The general average pressure for the week has been above the normal in all districts, the excess averaging 0·04 inch. The excess is, however, smallest in the north of the province as indicated by such stations as Purneah and Durbhunga, and in South-West Bengal as represented by Calcutta and Burdwan, while it is comparatively large in East and Central Bengal.

Temperature.—The changes of temperature have been small and irregular, and there has been no general variation from the mean, some stations reporting small excess, and the others a similar defect. At the beginning of the week a slight rise was reported from almost all stations. This rise continued in Bengal for the three first days of the week, but a fall, commencing in Burmah on Monday, became general, and slight falls were everywhere reported on Tuesday, the 8th. After that, though the changes were very irregular, slight falls were generally reported. On Friday, the 11th, a rise occurred over the whole of Bengal, but several Burmah stations and Chittagong reported a slight fall.

The mean temperature for the week for the whole province has been about one degree below the normal; but while defective temperatures have been recorded in the north and east of the province as indicated by such districts as North Behar, North Bengal, and East Bengal; on the other hand, South Behar and Chutia Nagpur have shown excess temperatures. The lowest temperature reported during the week is from Burdwan, where 44·0° was registered on the 7th. The minimum or night temperatures have indeed been distinctly low during the week. This is shown clearly in the following table, where the average maximum, minimum and mean temperatures for the week at nine typical stations in the province are compared with the normal values for the same period. At almost all these stations the minimum or night temperatures have been in defect of the normal, while the day temperatures have been in considerable excess.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 11th of January 1889.

	Normal mean maximum temperature for the week ending 11th January.	Actual mean maximum temperature for the week ending 11th January 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 11th January.	Actual mean minimum temperature for the week ending 11th January 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 11th January.	Actual mean daily temperature for the week ending 11th January 1889.	Variation of actual mean from the normal.
Cuttack	83·7	84·5	+0·8	58·9	57·4	−1·5	71·3	71·0	−0·3
Calcutta	76·1	76·9	+0·8	54·3	52·4	−1·9	65·2	64·7	−0·5
Dacca	76·8	78·4	+1·6	53·7	52·5	−1·2	65·2	65·4	+0·2
Burdwan	77·3	79·7	+2·4	53·7	47·9	−5·8	65·5	63·8	−1·7
Patna	72·3	74·3	+2·0	50·3	48·3	−2·0	61·3	61·3	0
Gya	73·6	76·5	+2·9	50·8	49·6	−1·2	62·2	63·0	+0·8
Purneah	74·8	75·8	+1·0	47·7	?	—	61·3	?	—
Hazaribagh	72·4	75·1	+2·7	49·3	49·7	+0·4	60·9	62·4	+1·5
Darjeeling	46·4	47·4	+1·0	35·6	35·5	−0·1	41·0	41·5	+0·5

Rainfall—Has been entirely absent from the province throughout the whole week, except for a few drops of rain which fell at Buxa in the Darjeeling Hills district on the 9th instant.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 11th of January 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	86·4	49·4	80·3	57·3	68·8	0	Nil	0·03	—0·03	0·0	0·1	—0·1	Nil	0·06	50 48	53·16
South-West Bengal ...	84·3	44·0	78·6	50·6	64·6	—0·6	Nil	0·08	—0·08	0·0	0·2	—0·2	Nil	0·11	54·52	51·65
East Bengal	80·1	46·0	73·9	51·3	62·6	—1·6?	Nil	0·11	—0·11	0·0	0·2	—0·2	Nil	0·16	70·57	73·91
North Bengal	79·0	[illegible]	73·8	48·1	61·0	—1·8?	Nil	0·07	—0·07	0·0	0·2	—0·2	Nil	0·07	53·19	70 09
North Behar	76·7	46·0	62·2	48·0	55·1	—5·9?	Nil	0·05	—0·05	0·0	0·2	—0·2	Nil	0·09	41·61	48·27
South Behar	79·3	43·0	75·8	48·3	62·1	+0·4	Nil	0·08	—0·08	0·0	0·2	—0·2	Nil	0·10	48·19	43·40
Chutia Nagpur	78·0*	45·4*	75·4*	49·4*	62 4*	+1·9*	Nil	0·17	—0·17	0·0	0·3	—0·3	Nil	0·18	50·17	49·0 9

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 15*th January* 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 6th to 12th January 1889.

Month.	Date.	Temperature.				Mean wet bulb.	Hygrometry.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1889.		°	°	°	°	°	Inches.	°	%	Inches.
January ...	6th ...	66·9	79·9	22·5	56·4	62 1	·495	58·7	75	Nil.
" ..	7th ...	67 5	79 9	24 6	55·3	60·7	·442	55 5	66	"
" ...	8th	64 4	77 3	24 6	52·7	57·7	·390	52 1	64	"
" ..	9th ...	62·8	76 0	25·8	50·2	56·2	·366	50 3	64	"
" ...	10th ..	64·5	78·1	27·4	50 7	57·6	·385	51 7	63	"
" ...	11th ..	66 7	80 5	26·6	53·9	62·0	·495	58 7	75	"
" ...	12th ...	72 1	84 8	23·1	61 7	67·5	·614	64 8	78	"

The mean temperature of the seven days	...	...	..	66·4°
The extreme variation of temperature	...	...	...	34·6
The maximum temperature ...	...	...	...	84·8
The mean relative humidity ...	...	...	...	69 %
The total fall of rain from 6th to 12th January 1889	...		...	Nil (Inches.)

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA ;
The 14*th January* 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

From the annexed table, exhibiting the mortuary statistics of the districts in Bengal for the month of October 1888, it appears—

1. That the deaths of 149,631 persons were registered out of a population of 66,055,695, presenting a death-rate of 27·12 per 1,000 per annum, against 22·20 per 1,000 during the preceding month, and 24·48 per 1,000 during the corresponding month of 1887, indicating, as compared with both the past periods, a considerable advance in the registration of deaths.

2. That the undermentioned districts returned the highest proportions of deaths :—

Districts.	Ratio per *mille.*	*Districts.*	Ratio per *mille.*
Shahabad	57·96	24-Pergunnahs	28·20
Gya	55·32	Murshedabad	28 20
Monghyr	40·56	Khulna	27 84
Maldah	40·08	Howrah	27 24
Hazaribagh	39·60	Purneah	26·88
Julpaiguri	38 52	Rajshahye	26 04
Lohardugga	37·92	Noakhali	25 56
Bhagulpore	34·68	Midnapore	25·44
Patna	33·60	Nuddea	25 32
Dinajpur	31·08	Backerganj	25·32
Darjiling	30·12	Serampore	25·20

3. That the diseases, as classified in the following table, furnish the death-rates exhibited below, in contrast with the results of the corresponding month of the preceding year :—

	Ratio per *mille* during— October 1888.	Ratio per *mille* during— October 1887.
Cholera	·84	·48
Small-pox	·02	·01
Fever	21·00	19·44
Bowel-complaints	·84	·72
Injury	·36	·36
Other causes	3·84	3·24

The above figures denote that there was an increase of mortality from all the death-causes (excepting injury), particularly from fever.

4. That cholera, fever, and the maladies classed under the head of "Other causes" were noticeably fatal in the following districts. The other diseases do not appear to have prevailed with more than ordinary severity anywhere :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other Causes.*	Ratio per *mille.*
Howrah	3·48	Shahabad	47·16	Puri	10·92
Maldah	3 48	Gya	46 68	Sarun	9·12
Shahabad	3 12	Julpaiguri	35·10		
Mozufferpore ..	3·00	Maldah	33 84		
24-Pergunnahs ..	2·64	Hazaribagh	33·60		
Bhagulpore ...	2 28	Monghyr	31·92		
		Dinajpur	29 64		
		Lohardugga	27·72		
		Bhagulpore	27·00		
		Murshedabad ...	24 96		
		Purneah	24 96		
		Rajshahye	23·88		
		Patna	23·64		
		Khulna	23·28		
		Jessore	22·32		
		Rungpore	22·08		
		Pubna	21·60		
		Nuddea	21·36		
		Bogra	21·00		
		Noakhali	21·00		
		Darjiling	20 88		

5. That the death-rates under the heads of *Sex*, *Class* and *Age*, stood as noted below :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	28·56	Christians	21·60	Under 1 year ...	196·68
Females ...	25·68	Hindus	28 56	1 and under 5 years...	31 56
Ratio of male deaths to every 100 female deaths ...	109	Mahomedans ...	24·60	5 " " 10 " ...	15 00
		Budhists	15·00	10 " " 15 " ...	12·72
		Other classes ...	24·72	15 " " 20 " ...	16 56
				20 " " 30 " ...	16 32
				30 " " 40 " .	18·36
				40 " " 50 " ...	24·44
				50 " " 60 " ...	37 32
				60 years and upwards ...	67·20

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 11*th January* 1889.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of October 1888

1	2	3			4							5							6		7		8		9
					MORTALITY ACCORDING TO—																				
					Disease.																Sex.				
Divisions.	Districts.	Population.			Deaths from—							Ratio per 1,000 of population per annum							Comparison with previous periods.		Deaths among—		Ratio per 1,000 of population per annum		
		Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan	668,295	723,528	1,391,823	52	1	1,874	51	26	449	2,453	·36	·008	16·08	·36	·12	3·84	21·00	18·60	22·20	1,330	1,151	21·28	19·80	115
	Bankura	507,136	534,616	1,041,752	16	1	1,243	25	17	260	1,562	·12	·01	14·28	·24	·12	2·88	17·88	17·64	16·08	808	745	19·08	16·92	107
	Birbhum	381,563	412,865	794,428	7	......	1,241	10	14	384	1,656	·09	......	18 72	·12	·12	5·76	24·96	21·48	29·88	837	819	25·32	23·76	102
	Midnapore	1,243,195	1,272,370	2,515,565	151	......	4,143	291	88	675	5,348	·72	......	19·68	1·32	·36	3·12	25·44	21·96	22·80	2,794	2,554	26·88	24 00	109
	Hughli	315,665	347,385	663,050	34	......	949	128	29	219	1,350	·60	......	17 16	2·28	·36	3·96	24·48	18·96	24·00	707	653	26·76	22·44	108
	Serampore	174,366	177,589	351,955	39	......	422	96	19	164	740	1·32	......	14·04	3·24	·60	5·52	25·20	19·56	20·52	406	334	27·84	22·56	121
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	73	... ..	1,371	224	48	383	2,099	·84	...	16·20	2·64	·48	4·44	24·72	19·08	22·80	1,113	990	27·24	22·44	112
Presidency ...	Howrah	316,479	318,902	635,381	189	1	685	273	31	266	1,445	3·48	·01	12·84	5·04	·48	4·92	27·24	20·88	24·24	798	647	30·24	24·24	123
	24-Pergunnahs	975,430	894,429	1,869,859	419	4	2,957	334	94	602	4,410	2 64	·02	18·96	2·04	·60	3·84	28·20	22·32	27·36	2,475	1,935	30·36	25·92	127
	Nuddea	805,779	849,942	1,655,721	35	3	2,962	16	75	415	3,506	·24	·01	21·36	·10	·48	3 00	25·32	16·08	35 04	1,848	1,631	27·72	23 04	114
	Jessore	959,271	980,104	1,939,375	25	......	3,616	10	84	168	3,903	·12	......	22·32	·06	·48	·96	24·12	12·36	21·12	2,073	1,830	25·92	23·32	113
	Murshidabad	586,483	640,307	1,226,790	19	......	2,553	18	39	266	2,895	·12	......	24 96	·12	·36	2·52	28·20	23 64	42·72	1,489	1,406	31·36	26 28	105
	Khulna	568,402	511,546	1,079,948	6	2	2,099	7	34	364	2,512	·06	·01	23·28	·07	·36	3·96	27·84	13·72	24·84	1,266	1,246	25·64	23·16	101
Rajshahye ...	Dinajpur	782,292	732,054	1,514,346	......	... ..	3,749	8	26	143	3,926	...	... ..	29·64	·06	·12	1·08	31·08	25·08	42·84	2,117	1,809	32 40	29·64	117
	Rajshahye	660,226	678,412	1,338,638	15	.. ...	2,668	5	68	155	2,911	·12	.... .	23·88	·03	·60	1 32	26·04	19·08	44 40	1,549	1,362	28·08	24 00	113
	Rungpore	1,067,701	1,030,263	2,097,964	.. . .	......	3,875	8	24	324	4,231	... .	... ..	22·08	·03	·12	1·80	24·12	19·56	28 08	2,243	1,988	25 20	22·04	113
	Bogra	372,677	361,681	734,358	13	......	1,292	2	32	191	1,530	·12	. ..	21·00	·02	·48	3·12	24·96	18·84	33 52	809	721	26·04	23·88	112
	Pubna	648,311	663,417	1,311,728	4	......	2,372	9	29	126	2,540	·003	... ..	21 60	·07	·24	1·08	23·16	15·96	27·12	1,467	1,073	27 12	19·32	136
	Darjiling	89 398	66,739	156,137	......	....	273	63	8	49	393	... .	.. . .	20·88	4·80	·60	3·72	30·12	30·84	26 04	214	179	28·68	32·16	119
	Jalpaiguri	305,555	276,007	581,562	19	.....	1,718	6	16	113	1,872	·36	.. .	35 40	·12	·24	2·28	38·52	22·32	35·40	1,032	840	40·44	36·48	122
Dacca ...	Dacca	1,033,863	1,082,487	2,116,350	79	2	2,621	162	59	907	3,830	·46	·01	14 76	·84	·24	5·04	21·60	13·56	18·96	2,081	1,743	24·12	19·32	118
	Faridpore	805,989	825,745	1,631,734	17	7	2,090	44	52	423	2,632	·12	·04	15 36	·24	·36	3·00	19·32	10·92	13·08	1,472	1,160	21·84	16·20	127
	Backerganj	973,479	927,410	1,900,889	10	3	2,638	46	91	1,235	4,023	·06	·01	15·36	·24	·48	7·68	25 32	18·84	27·84	2,007	2,016	24·72	26·04	99
	Mymensing	1,553,397	1,498,569	3,051,966	14	30	3,854	81	48	727	4,754	·04	·10	15·12	·24	·12	2·76	18 60	15·00	16·20	2,582	2,172	19·93	17·28	118
Chittagong ...	Chittagong	531,649	600,692	1,132,341	......	.. .	1,552	74	82	218	1,926	. .	... ..	16 44	·72	·84	2·28	20·40	14·28	15 12	980	946	22·08	18·84	103
	Noakhali	415,248	405,524	820,772	.. ..	... .	1,437	16	79	221	1,753	......	.. .	21 00	·12	1·08	3·12	25 56	17·04	18·96	838	915	21·12	27 00	91
	Tipperah	770,893	748,445	1,519,338	...	10	1,544	67	69	755	2,145		·07	12 12	·48	·48	5·84	19·20	16·08	19 56	1,267	1,178	19·68	18·84	107
Patna ...	Patna	858,783	898,073	1,756,856	203	2	3,466	251	86	924	4,942	1 32	·01	23 64	1·68	·48	6·24	33·60	32·64	25·04	2,503	2,429	34·92	32 40	103
	Gya	1,043,441	1,081,241	2,124,682	351	18	8,274	155	168	915	9,801	1 92	·09	46 68	·72	·60	5·16	55·32	53·52	29·52	4,738	5,063	54·48	56·16	106
	Shahabad	950,250	1,014,659	1,964,909	525	3	7,737	64	90	1,087	9,506	3·12	·01	47 18	·36	·48	6 60	57·96	39 60	29·76	4,490	5,016	56·64	59·28	89
	Mozufferpore	1,265,731	1,316,329	2,582,060	654	3	3,599	201	92	506	5,355	3 00	·01	18 12	·84	·36	2·28	24·84	20 88	11·40	2,944	2,411	27·84	21·96	122
	Durbhanga	1,295,788	1,337,659	2,633,447	7	......	3,298	105	75	211	3,696	·02	.. .	15 00	·36	·24	·72	16·80	13·80	15·36	1,944	1,752	18·00	15·80	110
	Sarun	1,083,565	1,196,817	2,280,382	199	8	2,018	288	102	1,735	4,340	·96	·03	10 56	1·44	·48	9·12	22·92	23·52	18·00	2,353	1,987	26·16	19·92	118
	Chumparun	870,627	850,981	1,721,608	85	27	2,512	22	68	747	3,461	·48	·13	17·40	·12	·36	5·16	24·12	27·60	19·20	1,873	1,589	25·80	22·32	117
Bhagulpore ...	Monghyr	969,124	1,000,650	1,969,774	237	......	5,247	49	116	1,017	6,666	1·44	......	31 92	·24	·72	6·12	40·56	34·32	40 32	3,422	3,244	42·36	38·88	105
	Bhagulpore	979,119	987,039	1,966,158	376	2	4,428	106	71	717	5,700	2 28	·01	27·00	·60	·36	4·32	34·68	24·72	33 88	2,980	2,720	36·44	33·00	109
	Purneah	937,080	911,607	1,848,687	150	4	3,850	6	32	100	4,142	·96	·02	24 96	·03	·12	·60	26·88	15·00	25·32	2,281	1,921	28·44	25·20	115
	Maldah	346 998	363,450	710 448	214	......	2,009	5	16	139	2,374	3·48	... .	33 84	·03	·24	2·16	40·08	20·52	47·40	1,324	1,050	45·72	34·56	126
	Sonthal Pergunnahs	785,330	782,763	1,568,093	29	......	1,669	21	42	194	1,954	·12		12 72	·12	·24	1·44	14·88	15·72	15·48	1,090	864	16·56	13·20	127
Orissa ...	Cuttack	877,702	917,363	1,795,065	135	3	1,348	323	99	824	2,742	·84	·01	9 00	2·04	·60	5·52	18·24	20·28	16·56	1,424	1,318	19·44	17·16	103
	Puri	446,609	441,878	888,487	76	12	237	168	44	814	1,351	·96	·12	3·12	2 16	·48	10 92	18·24	17·52	21·48	715	636	19 20	17·16	112
	Balasore	461,461	483,819	945,280	29	4	882	356	43	443	1,757	·36	·14	11 16	4·44	·48	5 62	22·20	18·96	19·44	868	889	22·56	21·96	97
Chota Nagpore ...	Hazaribagh	544,903	559,839	1,104,742	66	1	3,095	113	46	332	3,653	·60	·01	33 60	1 20	·48	3·60	39·60	43 80	29 28	1,851	1,820	40·68	38·52	102
	Lohardugga	796,657	812,587	1,609,244	42	......	3,728	422	33	864	5,089	·24	... .	27·72	3 12	·24	6·36	37·92	33·36	29·28	2,550	2,539	38·40	37·44	100
	Singbhum	226,681	227,094	453,775	77	......	586	79	20	118	880	1 92	..	15 48	2 04	·48	3 12	23·16	25·80	14·52	494	386	26·04	20·28	127
	Manbhum	525,328	532,900	1,058,228	18	......	1,290	80	18	261	1,667	·12	......	14 52	·84	·12	2·88	18·84	24·24	15·12	925	742	21·13	16·68	124
	TOTAL FOR THE PROVINCE	32,777,919	33,277,776	66,055,695	4,635	151	116,060	4,643	2,434	21,765	149,631	·84	·02	21·00	·84	·36	3·84	27·12	22·20	24·48	73,197	71,434	28·56	25·63	109

MORTALITY ACCORDING TO— (10, 11) Class

Divisions.	Districts.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	1	2,031	420	......	1	13·08	21·72	19·08	......	18·60
	Bankura	......	1,419	57	......	86	...	18·67	14·76	...	12·12
	Birbhum	..	1,339	291	...	26	...	25·92	21·48	...	21·48
	Midnapore	3	4,760	305	...	280	48·60	25·56	22·20	...	28·56
	Hughli	...	1,080	269	......		...	24·48	24·84	......	......
	Serampore	...	638	102	......	...	...	26·16	20·64		......
	Total (Hughli, including Serampore)	...	1,728	371	......	...	....	25·08	23·52	...	...
Presidency	Howrah	...	1,178	267	......	......	...	27·00	24·24	......	...
	24-Pergunnahs	47	2,980	1,483	...	...	40·32	29·88	25·32	...	...
	Nuddea	19	1,518	1,969	.	......	35·40	24·96	25·36	...	...
	Jessore	...	1,514	2,189	...	...	......	23·64	24·48	......	......
	Murshidabad	...	1,474	1,421	...	....	...	27·84	28·80	...	......
	Khulna	2	1,071	1,419	...	...	32·04	24·48	31·08	...	...
Rajshahye	Dinajpur	2	1,788	2,133	...	3	52·44	29·88	32·16	......	24·72
	Rajshahye	......	695	2,216	...			23·8	25·32	......	...
	Rungpore	......	1,601	2,630	...	...	...	23·52	24·60	...	...
	Bogra	...	295	1,235	...	...	...	25·08	24·96	......	...
	Pubna	......	648	1,892	...	...	...	21·48	24·84	...	...
	Darjiling	...	351	18	22	2	......	33·12	26·28	14·01	37·44
	Jalpaiguri	...	1,106	743	......	23	...	36·72	42·72	...	61·08
Dacca	Dacca	15	1,611	2,204	......	......	20·40	22·46	21·12	......	...
	Faridpore	......	1,068	1,564	......	......	...	20·16	19·20	......	...
	Backerganj	7	1,159	2,857	......	...	22·56	22·20	27·00	...	...
	Mymensing	...	1,622	3,079	...	53	...	19·68	18·12	...	24·48
Chittagong	Chittagong	5	428	1,415	78	...	56·76	18·60	21·12	17·28	...
	Noakhali	......	434	1,319	...	......	...	24·60	25·92	...	...
	Tipperah	...	821	1,624	...	...	...	19·20	19·12	......	...
Patna	Patna	......	4,461	471	......	......	......	34·68	26·40	......	....
	Gya	1	8,922	978	......	...	124·92	55·92	50·28	......	...
	Shahabad	......	8,941	565	......	......	.	48·92	45·20	...	...
	Mozufferpore	......	4,798	557	......	......	...	25·32	21·12	......	...
	Durbhanga	......	3,346	350	......	......	...	17·16	13·44	......	...
	Sarun	...	3,898	452	......	...	...	23·16	19·20	......	...
	Chumparun	4	3,015	442	......	...	24·72	24·48	21·84	......	..
Bhagulpore	Monghyr	3	6,172	585	...	6	32·88	41·04	37·32	...	9·96
	Bhagulpore	2	5,258	440	......	......	41·52	35·76	28·41	......	......
	Purneah	1	2,575	1,586	...	...	36·60	28·68	24·36	...	...
	Maldah	...	1,005	1,065	...	4	...	41·28	38·76	......	27·48
	Sonthal Pergunnahs	2	1,305	137	...	510	7·90	18·36	15·00	...	9·96
Orissa	Cuttack	1	2,680	61	...	...	5·04	19·56	15·36	......	......
	Puri	......	1,343	8	......	...		18·36	6·84	...	.
	Balasore	1	1,727	24	...	5	14·64	22·76	12·00	...	12·24
Chota Nagpore	Hazaribagh	...	3,147	345	...	161	..	40·80	39·00	...	26·28
	Lohardugga	64	2,509	336	...	2,160	21·12	31·56	65·04	......	41·28
	Singbhum	2	871	5	.	2	7·92	23·04	25·68	......	36·08
	Manbhum	2	1,475	74	.	113	43·44	18·72	19·44	.	20·52
	TOTAL FOR THE PROVINCE...	184	102,090	43,822	100	3,435	21·60	28·56	24·60	15·00	24·72

(12) Age — Deaths.

Divisions.	Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	459	203	196	117	151	317	267	247	206	298
	Bankura	250	156	124	92	110	16	193	147	118	203
	Birbhum	396	218	136	76	91	146	132	166	101	204
	Midnapore	910	678	333	237	270	548	551	550	444	839
	Hughli	227	130	99	36	88	224	143	144	105	183
	Serampore	143	89	47	31	45	86	99	63	58	79
	Total (Hughli, including Serampore)	370	219	146	67	133	310	242	207	163	242
Presidency	Howrah	223	232	88	69	89	172	133	113	100	226
	24-Pergunnahs	631	619	367	151	260	597	565	380	329	571
	Nuddea	595	459	431	251	220	323	288	244	248	457
	Jessore	425	554	459	261	254	428	403	348	260	510
	Murshidabad	429	392	325	187	150	294	271	251	209	397
	Khulna	430	370	235	105	156	276	221	195	138	386
Rajshahye	Dinajpur	650	670	336	290	213	514	459	346	239	299
	Rajshahye	353	444	401	188	163	331	345	264	177	245
	Rungpore	613	418	351	210	222	560	571	462	295	429
	Bogra	268	184	138	75	87	181	162	159	100	178
	Pubna	288	362	402	203	181	265	247	181	129	231
	Darjiling	69	45	31	27	32	40	63	27	16	34
	Jalpaiguri	383	226	130	86	96	235	211	224	106	169
Dacca	Dacca	736	552	318	168	180	352	346	273	231	674
	Faridpore	519	291	191	141	144	273	244	228	187	384
	Backerganj	981	583	280	138	183	399	336	275	258	594
	Mymensing	811	543	376	229	320	605	482	362	344	656
Chittagong	Chittagong	244	267	112	84	103	204	216	188	174	334
	Noakhali	415	292	134	58	66	147	146	113	120	267
	Tipperah	585	244	139	82	144	233	258	169	170	362
Patna	Patna	1,025	670	260	155	126	465	457	472	592	710
	Gya	1,606	1,720	713	455	298	820	808	896	995	1,490
	Shahabad	1,713	1,452	703	337	227	804	828	837	924	1,688
	Mozufferpore	434	731	482	329	246	568	621	565	603	777
	Durbhanga	320	458	360	197	165	374	412	422	418	570
	Sarun	638	531	234	176	128	367	411	396	425	1,041
	Chumparun	503	447	257	122	104	324	335	394	356	619
Bhagulpore	Monghyr	1,671	1,235	438	309	192	416	427	535	524	929
	Bhagulpore	932	839	525	357	253	613	596	516	436	573
	Purneah	410	619	379	258	233	544	547	490	342	390
	Maldah	314	407	334	150	117	233	231	154	132	242
	Sonthal Pergunnahs	357	257	190	144	124	207	193	118	163	171
Orissa	Cuttack	624	298	170	82	133	217	275	242	224	483
	Puri	297	164	85	30	54	113	129	101	126	246
	Balasore	427	201	98	52	69	171	150	141	136	307
Chota Nagpore	Hazaribagh	721	610	290	158	106	259	303	305	328	563
	Lohardugga	1,030	1,074	487	243	290	390	358	353	390	564
	Singbhum	132	163	64	49	40	82	77	83	73	111
	Manbhum	243	211	147	96	115	178	181	155	143	198
	TOTAL FOR THE PROVINCE...	25,453	21,390	12,406	7,207	6,050	15,115	14,624	13,282	12,185	20,849

(13) Age — Ratio per 1,000 of population per annum.

Divisions.	Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	174·48	18·72	13·32	10·44	14·76	14·88	14·40	19·32	25·44	44·88
	Bankura	113·04	15·36	9·84	5·40	13·92	10·68	15·72	25·44	28·68	43·68
	Birbhum	277·44	32·64	16·20	11·28	16·32	12·84	12·84	23·04	20·88	40·92
	Midnapore	174·60	29·52	11·40	11·40	14·16	13·56	18·00	28·08	37·20	73·44
	Hughli	160·56	26·40	17·28	6·96	17·64	20·76	15·96	22·80	26·28	52·92
	Serampore	171·24	33·48	16·68	12·12	17·16	14·64	20·40	18·48	27·48	48·72
	Total (Hughli, including Serampore)	164·52	23·80	17·04	8·64	17·53	18·60	17·52	21·24	26·64	51·48
Presidency	Howrah	143·64	40·92	13·44	13·44	18·60	16·92	16·92	22·20	31·92	69·84
	24-Pergunnahs	155·84	35·88	18·12	10·32	20·52	20·28	21·12	24·48	35·64	60·36
	Nuddea	187·32	27·12	20·40	17·40	21·72	14·76	15·12	17·61	26·52	52·44
	Jessore	90·00	28·92	18·96	15·96	20·52	15·72	18·24	21·72	24·84	51·72
	Murshidabad	134·80	32·40	21·60	18·36	18·24	17·28	18·48	24·24	32·52	61·32
	Khulna	171·72	34·68	18·48	11·52	19·44	17·28	17·76	23·04	26·76	74·16
Rajshahye	Dinajpur	222·72	46·20	15·84	15·96	21·84	23·84	24·36	28·20	35·88	48·12
	Rajshahye	135·12	32·76	22·32	16·80	18·72	17·64	21·48	24·72	29·76	41·76
	Rungpore	142·32	25·44	13·20	12·48	17·16	18·84	21·24	25·92	28·44	44·88
	Bogra	208·20	22·80	13·56	12·36	17·40	17·40	18·48	29·04	32·76	57·72
	Pubna	94·80	24·12	22·92	19·32	22·92	15·72	16·32	17·76	21·12	39·00
	Darjiling	264·96	33·24	19·92	20·64	29·04	16·90	29·52	23·64	28·52	58·56
	Jalpaiguri	284·76	39·24	18·48	16·92	27·60	29·28	29·76	45·72	37·56	63·88
Dacca	Dacca	150·00	22·80	11·40	8·88	13·32	12·60	14·76	17·52	24·60	60·84
	Faridpore	162·60	16·20	9·48	9·72	14·28	10·56	13·08	17·52	22·80	48·24
	Backerganj	251·76	28·08	12·48	8·40	13·32	13·92	15·48	19·32	28·56	71·52
	Mymensing	130·68	16·44	9·00	8·88	15·72	14·16	13·80	16·44	26·52	46·08
Chittagong	Chittagong	88·56	21·72	7·08	7·32	12·84	14·52	13·72	23·16	30·96	64·92
	Noakhali	212·88	31·20	12·12	7·80	11·40	13·44	16·56	18·84	31·08	74·52
	Tipperah	197·40	13·92	6·96	6·00	13·56	14·04	15·36	15·24	24·60	54·84
Patna	Patna	296·88	37·30	13·44	11·04	13·32	19·08	21·36	30·00	55·64	66·00
	Gya	450·60	74·28	29·40	25·92	25·56	27·96	30·72	47·52	83·76	41·24
	Shahabad	457·92	71·04	30·96	19·80	21·36	29·40	32·88	50·76	92·52	159·72
	Mozufferpore	117·12	26·88	14·52	15·24	17·64	16·56	19·44	24·48	42·60	60·36
	Durbhanga	76·20	17·04	10·68	9·24	11·04	10·32	12·24	18·00	29·40	48·48
	Sarun	143·16	22·80	8·40	8·81	10·32	12·12	14·04	19·80	36·60	92·64
	Chumparun	136·44	26·28	12·60	8·28	10·80	13·44	14·76	26·28	41·04	77·64
Bhagulpore	Monghyr	543·96	58·68	17·52	18·12	16·08	15·96	17·52	31·44	51·72	98·52
	Bhagulpore	303·48	46·80	20·16	20·28	21·36	21·84	23·40	33·40	48·24	71·76
	Purneah	130·08	34·80	15·84	16·20	20·40	20·88	23·76	30·60	40·92	40·48
	Maldah	190·92	67·08	36·72	24·48	23·40	24·00	27·48	27·48	41·76	67·32
	Sonthal Pergunnahs	137·16	15·12	7·80	9·48	13·08	10·68	10·92	10·92	24·84	26·52
Orissa	Cuttack	199·32	15·12	7·80	5·04	11·64	8·52	13·68	18·12	23·28	51·48
	Puri	234·36	17·28	7·92	4·80	9·60	8·52	12·24	14·40	25·56	59·64
	Balasore	249·36	21·90	8·28	6·90	11·28	12·48	13·56	18·24	29·64	74·40
Chota Nagpore	Hazaribagh	249·12	46·32	19·20	16·20	16·80	17·16	22·92	38·52	71·16	155·28
	Lohardugga	290·16	54·00	21·60	16·08	20·76	17·64	19·08	32·04	[illegible]	104·16
	Singbhum	191·20	31·68	10·32	11·40	14·40	13·20	14·40	25·44	38·88	68·28
	Manbhum	101·88	13·12	9·60	10·68	15·12	12·60	14·40	21·36	30·36	45·60
	TOTAL FOR THE PROVINCE...	196·68	31·56	15·00	12·72	16·56	16·32	18·36	24·84	37·32	67·80

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 11th January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Offg. Sanitary Commissioner for Bengal.

MEMORANDUM.

The principal municipalities in Bengal returned, during the week ending 22nd December 1888, the birth and death-rates of 27·6 and 31·1 per 1,000 of population, respectively, as opposed to 25·7 and 29·8 per 1,000, respectively, in the preceding week ending 15th December, indicating an improvement in the registration of both events.

2. These events were returned in the highest proportions from the following municipalities:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Narainganj	49·7	Narainganj	86·9
Serampore	47·1	Suburbs of Calcutta	53·8
Comillah	46·2	Rampore Beauleah	49·9
Chupra	44·9	Serampore	49·1
Rampore Beauleah	44·6	Jessore	42·8
Durbhanga	42·5	Comillah	38·5
Monghyr	41·6	Purneah	38·1
Arrah	34·7	Utterpara	37·7
Dacca	33·1	Burdwan	36·6
Bhagulpore	32·6	Hughli	36·3
Howrah	31·5	Dacca	35·0
Purneah	31·2	Bali	31·6
		Puri	31·5

3. The subjoined table, taken from the general statement appended to this memorandum, indicates chiefly that, as compared with the results of the preceding week, cholera exhibited a decrease of mortality, while the number of deaths from bowel-complaints increased to a noticeable extent:—

	Ratio per *mille* during the weeks ending—	
	22nd December 1888.	15th December 1888.
Cholera	3·5	4·5
Small-pox	..	·2
Fever	12·4	11·6
Bowel-complaints	5·9	4·1
Injury	3	·2
Other causes	9·0	9·2

4. No death was reported from small-pox, and the casualties from injury were nowhere great. The other maladies enumerated above caused the greatest loss of life in the following municipalities:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Narainganj ...	41·5	Purneah ...	31·1	Utterpara ...	28·3	Rampore Beauleah	23·6
Jessore ...	18·3	Comillah ...	26·9	Narainganj ...	16·5	Narainganj ...	16·5
Rampore Beauleah	10·5	Durbhanga ...	22·8	Burdwan ...	15·3	Serampore ...	15·7
Santipore ...	8·8			Suburbs of Calcutta ...	13·0	Bhagulpore ...	15·4
Howrah ...	8·0			Serampore ...	11·8	Puri ...	14·7
Suburbs of Calcutta	7·0					Dacca ...	14·3
Hughli ...	4·0					Bali ...	14·0
Dacca ...	3·2					Suburbs of Calcutta ...	13·9
						Midnapore ...	12·4
						Gya ...	10·9

5. With reference to *Sex*, *Class* and *Age*, the mortality of the week stood as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	32·9	Christians ...	34·8	Under 1 year ...	190·4
Females	29·0	Hindus ...	29·8	1 and under 5 years ...	43·1
Ratio of male deaths to every 100 female deaths	128	Mahomedans ...	34·1	5 „ 10 „ ...	14·7
		Other classes ...	36·4	10 „ 15 „ ...	9·5
				15 „ 20 „ ...	15·7
				20 „ 30 „ ...	19·8
				30 „ 40 „ ...	25·3
				40 „ 50 „ ...	27·6
				50 „ 60 „ ...	39·9
				60 years and upwards ...	83·8

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 11*th January* 1889.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 22nd December 1888.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex				
					Number of—			Ratio per 1,000 of population per annum.				Deaths from—							Ratio per 1,000 of population per annum.								Deaths.		Ratio per 1,000 of population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan ...	18,633	16,017	34,650	10	6	16	15.3	9.1	24.4	166			11	10		3	24		..	16.8	15.3	...	4.5	36.6	22.9	15	9	43.2	29.2	166
Midnapore	Midnapore ...	16,927	16,633	33,560	6	7	13	9.3	10.8	20.1	85	1		5	4		8	18	1.5		7.7	6.2		12.4	27.9	23.2	11	7	35.8	21.9	157
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	8	11	19	16.7	14.8	31.5	72	3	..	13	4		7	27	4.9		17.5	5.4		9.4	36.3	37.6	16	11	43.4	29.3	145
Serampore ...	Serampore ...	13,559	12,937	26,496	13	11	24	25.5	21.6	47.1	118	1		10	6	..	8	25	2.0	.	19.6	11.8	.	15.7	49.1	56.0	14	11	53.7	44.2	127
	Utterpara ...	3,046	3,464	6,510	2	1	3	[illegible]	9.4	28.3	200		.	1	3			4		.	9.4	28.3	.		37.7	25.3	2	2	34.1	32.2	100
Howrah ...	Howrah ...	53,153	37,660	90,813	33	22	55	18.9	12.6	31.5	150	14	.	13	15	..	8	51	8.0	.	7.4	8.6	...	4.6	29.2	20.0	18	32	17.6	44.2	56
	Bali ...	7,836	6,979	14,815	5	3	8	17.5	16.5	28.1	166	2		2	1		4	9	7.0	.	7.0	3.5	..	14.0	31.6	21.1	2	7	13.3	52.2	28
24-Pergunnahs	Suburbs of Calcutta	147,265	134,224	281,489	58	56	114	12.1	11.6	23.6	103	34		94	63	2	67	260	7.0	.	19.4	13.0	.4	13.5	53.8	52.1	165	95	58.3	47.4	173
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	3	1	4	5.7	1.9	7.6	300					.				.	..		...	.	.	18.9			.	...	... ..
	Ranaghat ...	4,825	4,856	8,653	2	1	3	12.0	6.0	18.0	200	1		1				2	6.0	.	6.0		..		12.0	12.0	2	..	25.8	..	No female death.
	Santipore ...	15,708	15,979	29,687	8	5	13	14.0	8.4	22.8	160	5		8	1	.	1	15	8.8	..	14.0	1.7	..	1.7	26.3	12.3	7	8	26.6	26.0	87
Jessore ...	Jessore ...	4,530	3,862	8,495			...					3		3	.		1	7	18.3	..	18.3	.	.	6.1	42.8	24.5	6	1	64.6	14.2	600
Rajshahye ...	Rampore Beauleah	10,769	9,022	19,791	9	8	17	23.6	21.0	44.6	112	4		6	..		9	19	10.5		15.8	..	...	23.6	49.9	65.7	10	9	48.3	51.9	111
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	..	2	2		13.0	13.0	No male birth	.	...	1				1			6.5		..	.	6.5	13.0	1	.	10.3	..	No female death.
Dacca ...	Dacca ...	42,782	37,379	80,161	24	27	51	15.6	17.5	33.1	88	5		17	10		22	54	3.2	.	11.0	6.4	.	14.3	35.0	24.7	34	20	41.3	27.8	170
	Narainganj ...	7,605	4,956	12,561	8	4	12	33.1	16.5	49.7	200	10		3	4	.	4	21	41.5		12.4	16.5	...	16.5	86.9	95.2	15	6	102.6	63.0	250
Chittagong ...	Chittagong ...	13,340	8,790	22,130	6	4	10	14.1	9.4	23.5	150		.	5	..		4	9	.	..	11.7	..	.	9.4	21.1	16.4	4	5	15.6	29.0	80
Tipperah ...	Comillah ...	8,155	5,355	13,510	6	6	12	23.1	23.1	46.2	100		..	7		1	2	10			20.9	.	3.8	7.7	38.5	27.0	7	3	44.6	29.1	233
Patna ...	Patna City ...	78,762	81,475	160,237	28	25	53	9.1	8.1	17.2	112	3	.	19	7	1	16	46	1.0		6.1	2.3	.3	5.2	14.9	12.3	26	20	17.2	12.8	130
Gya ...	Gya ...	38,290	37,831	76,121	15	12	27	10.2	8.2	18.4	125	1	..	24	2		16	43	.7	.	16.4	1.4		10.9	29.4	34.8	23	20	31.2	27.5	115
Shahabad ...	Arrah ...	20,960	22,505	43,465	14	15	29	16.7	17.9	34.7	93			6		1	1	8	..	.	7.2	...	1.2	1.2	9.6	9.6	2	6	5.0	13.9	33
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	9	4	13	10.9	4.9	15.8	225	1	..	4	1	.	6	12	1.2		4.9	1.2	..	7.3	14.6	25.1	7	5	15.8	13.2	140
Durbhunga	Durbhanga ...	33,774	32,322	66,096	23	31	54	18.1	24.4	42.5	74		...	29	4		3	36		.	22.8	3.1	.	2.4	28.3	26.7	17	19	26.2	30.6	89
Sarun	Chupra ...	26,044	27,205	53,249	29	17	46	28.3	16.6	44.9	170	..	.	4	4		6	14	.	...	3.9	3.9	..	5.9	13.7	7.8	7	7	14.0	13.4	100
Bhagulpore	Bhagulpore ...	29,640	27,813	57,453	16	20	36	14.5	19.1	32.6	80	1		4	3		17	25	.9	...	3.6	2.7	.	15.4	22.6	20.8	9	16	15.8	29.9	56
Monghyr ...	Monghyr ...	28,154	29,366	57,520	25	21	46	22.6	19.0	41.6	119	1	..	14	3	...	8	26	.9	..	12.7	2.7	.	7.2	23.5	32.5	13	13	24.0	22.7	100
Purneah	Purneah ...	8,463	6,553	15,016	4	5	9	13.9	17.3	31.2	80			9	1	1	...	11		...	31.1	3.5	3.5		38.1	45.5	4	7	24.6	55.5	57
Puri ...	Puri ...	13,247	11,537	24,784	7	7	14	14.7	14.7	29.4	100	...	.	3	4	1	7	15	.	...	6.3	8.4	2.1	14.7	31.5	42.0	8	7	31.4	31.6	114
	TOTAL ...	702,890	619,691	1,322,581	371	332	703	14.6	13.0	27.6	111	99	...	316	150	7	228	791	3.5	...	12.4	5.9	.3	9.0	31.1	29.8	445	346	32.9	29.0	128

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*" the ratios under which have been omitted, inasmuch as the census of the European above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO—

Class. (13, 14)

DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths among— Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.
Burdwan ...	Burdwan ...		15	4	.	...		39 5	30 4	..	...
Midnapore ...	Midnapore ...	...	14	4	...	...	.	28 1	28 8	..	...
Hughli ...	Hughli and Chinsurah ...	.	22	5			.	36·1	38 1	.	
Serampore ...	Serampore ...	.	23	2	...	...	..	47 4	110 9		...
	Utterpara ...	..	4	.	...	...	...	39 1		...	.
Howrah ...	Howrah ...	.	35	12	..	1	.	23 7	35 5	..	215 8
	Bali ...		9		.	.	...	34 9	..		.
24 Pergunnahs ...	Suburbs of Calcutta ...	8	157	95		..	102 8	54 5	51 1		
Nuddea ...	Kishnaghur ...		..		..	.			..		...
	Ranaghat ...		1	1		.	.	7·1	23·1	...	...
	Santipore ...	.	11	4	.	.	.	27 6	23 3	...	...
Jessore ...	Jessore ...	.	1	6	..	..	..	11·5	81 6	..	..
Rajshahye ...	Rampore Beauleah ...	...	8	16	..	...	...	15 7	84 8	.	..
Darjiling ...	Darjiling ...		...	1		...	...	...	84 7	..	..
Dacca ...	Dacca ...		31	23	...	.		40 0	30 4	...	.
	Narainganj ...		9	12	.	.	..	74 0	101 3	..	
Chittagong ...	Chittagong ...	.	1	8				9 0	27·2	.	.
Tipperah ...	Comillah ...		3	7	.	...		26 2	49 3		...
Patna ...	Patna City ...		38	8	...	...		10·6	10·2	..	.
Gya ...	Gya ...	..	57	6	.	...	.	32 1	19 4	.	...
Shahabad ...	Arrah ...	...	5	3	...	...	..	8 4	12 6	...	...
Mozufferpore ...	Mozufferpore ...		8	4	...	...	.	13 9	16 7		..
Durbhanga ...	Durbhanga ...	...	27	9	...	...	...	29·0	26 6	...	..
Sarun ...	Chupra ...	.	11	3	...	...	...	13 9	13 0	..	..
Bhagulpore ...	Bhagulpore ...		19	6	..	...	..	24 8	18·1	...	...
Monghyr ...	Monghyr ...		17	9	..	...	.	19 8	37·2	.	...
Purneah ...	Purneah ...	..	6	5	...	...	.	34 0	45 9	..	...
Puri ...	Puri ...	..	15	..	...	.	...	31 8		..	...
	TOTAL	8	525	257		1	34·8	29 8	34 1		36 4

Age. (15, 16)

DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan ...	4	3	..		1	4	2	5	...	5	315 2	69 1	....	... ..	16·6	26 3	15·1	58 9	... .	175 4
Midnapore ...	Midnapore ...	4	1		2	...	2	2	3	..	4	279 9	22·1	.	34·2	.	14 2	18 8	41·9	..	113 7
Hughli ...	Hughli and Chinsurah ...	8	3	1	1	1	4	1	5	2	1	441·1	58·5	14·9	17·2	17 5	27·1	7 4	50 4	31 8	20 7
Serampore ...	Serampore ...	7	3	1	1	1	3	2	1	...	6	512·7	86 4	20·7	23·4	23·8	29 0	20·9	15 4	... ..	224 3
	Utterpara ...		...	..	..	...	...	..	1	2	1	.	. .	. .	. .	......		... ..	74·2	252 6	200·0
Howrah ...	Howrah ...	6	13	3	1	1	6	12	4	1	3	151 2	122·0	24·8	7·9	7 1	13 3	32 4	17 7	9·5	41·6
	Bali ...	3	2		...	...	.	1	1	...	2	430 9	54 1	...	....	..	. .	18 6	26·9	...	142 1
24 Pergunnahs ...	Suburbs of Calcutta ...	26	25	10	5	11	39	51	31	30	32	283 7	80 5	26·3	14 5	31·7	34·9	51·5	47·5	91·9	116 9
Nuddea ...	Kishnaghur ...		.	...	...	..	..	..	.	..	..	......	..	. ...		.....	... .	... .	...	.. .	......
	Ranaghat ...	..	..		..	..	1	1	.		..	... .	....	.. ..		.....	34 5	41·7	..	......	.....
	Santipore ...	1	4	1	...	1	.	1	..	2	5	61 5	71 8	13·8	.	25·4	... .	12·0	......	45·2	132·4
Jessore ...	Jessore ...	1	1	1	..	1	..	1		1	1	268 0	105 3	65·6	..	71 0	..	34 0	.... .	92·4	113·5
Rajshahye ...	Rampore Beauleah ...	5	2		1	..	3	4	1	..	3	640·4	73 8	......	28·9	..	37 5	57 7	21·2	.. ...	162 0
Darjiling ...	Darjiling ...	.			...	..		.	.	...	1	... .	. . ..	... .	.	. ..	... .	... .	......	... ..	507·7
Dacca ...	Dacca ...	5	4	6	1	...	9	6	6	8	9	137·0	28·2	31·4	6 5	.....	31 5	26·8	37 2	87 9	84·0
	Narainganj ...	4	1	1	1	4	7	2		...	1	745·5	45·6	39 4	45 8	199 0	136·3	48 6	......	...	79·8
Chittagong ...	Chittagong ...	4	1	.	...	..	...	1	2	1	.	369 4	26 4	..		..	. ..	15·6	46 1	47 9	......
Tipperah ...	Comillah ...	2	...	.	..	2	2	1	1	.	2	350 2	..	..		82 7	37 7	26 1	39·6	... ..	153·4
Patna ...	Patna City ...	4	7	5	1	1	2	5	5	5	11	48·3	24 9	15 4	3 6	4 7	3 6	11·2	13 8	18·4	41·4
Gya ...	Gya ...	4	5	1	1		3	7	6	4	12	116 2	40 9	7 4	7 7	... .	10 6	28 6	31·9	31·6	121 2
Shahabad ...	Arrah ...	1	2	1	.	...	1		2		1	40 4	23 5	10 1		... ..	6 6	.	23 2	......	18·0
Mozufferpore ...	Mozufferpore ...	2	..	2		...	2	2	1	1	2	105 9	. . ..	23 1	..		12 1	14·9	10 4	16·0	42·7
Durbhanga ...	Durbhanga ...	5	4	1	1	1	2	3	4	2	13	167·0	27·3	6 6	9·4	12 9	7 8	14·0	27·9	23·7	211·6
Sarun ...	Chupra ...	1	2	1		.	..	2	1	2	5	36·0	19 6	8·4	.	..	. ...	12·9	8·3	24·7	74·7
Bhagulpore ...	Bhagulpore ...	5	2	1	..	1	9	1	1	3	2	217 8	19 2	8·1	. ..	12·4	42 8	5 6	8·1	36·6	28·9
Monghyr ...	Monghyr ...	7	5	..	3	2	2	2	2	...	5	245 1	25 1	. .	27 2	27·5	10·1	11·7	16·3	.. ..	72·5
Purneah ...	Purneah ...	..	1	1	2	1	2	1		2	1	... ..	44 0	32·9	87 1	52 3	31 7	18 2	... .	111·0	64·4
Puri ...	Puri ...	2	2	..		1			2	7	1	343 2	57 9			28 0	....	... ..	31·3	163 2	28·8
	TOTAL	111	91	57	21	30	103	111	85	73	120	190 4	43 1	14·7	9·5	15 7	19 8	25·3	27·6	39·9	83·3

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The 11th January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Offg. Sanitary Commissioner for Bengal.

MEMORANDUM.

THE returns from the principal municipalities in Bengal for the week ending 29th December 1888 present the following results:—

1. Births and deaths were recorded in these municipalities at the rates, respectively, of 23·6 and 29·6 per 1,000 of population, as opposed to 27·6 and 31·1 per 1,000 in the preceding week ending 22nd December, indicating a falling off in the registration of both events.

2. The following municipalities returned the highest proportion of births and deaths:—

Births.

	Ratio per *mille.*
Narainganj	70 4
Utterpara	47 2
Monghyr	45·2
Durbhanga	40·1
Santipore	31 5
Chupra	31·2
Chittagong	30·6

Deaths.

	Ratio per *mille.*
Utterpara	56 6
Suburbs of Calcutta	54 8
Narainganj	53 8
Rampore Beauleah	44·7
Puri	44 1
Santipore	43·8
Serampore	41 2
Burdwan	36 6
Midnapore	32 5
Gya	32 1

3. In comparison with the preceding week, there was a decrease in the death rate from fever, small differences in the mortality from the other diseases, and no difference in the death-rate under the head "Other causes:—"

	Ratio per *mille* during the weeks ending—	
	29th Dec. 1888.	22nd Dec. 1888.
Cholera	3·7	3 5
Small-pox	·1	.
Fever	11·3	12 4
Bowel-complaints	5·0	5 0
Injury	·4	·3
Other causes	9 0	9·0

4. The municipalities named below appear to have suffered most from the diseases indicated in the foregoing table, excepting small-pox and injury, the deaths from which were nowhere above normal:—

Cholera.

	Ratio per *mille.*
Narainganj ...	20·7
Santipore .	14 0
Suburbs of Calcutta ...	10·1
Serampore . .	9·8
Howrah ...	7·4
Dacca ...	4·5

Fever.

	Ratio per *mille.*
Rampore Beauleah .	23·6
Burdwan	21·3
Santipore ...	21 0

Bowel-complaints.

	Ratio per *mille*
Utterpara ...	28·3
Serampore ...	13·7
Suburbs of Calcutta	13·2

Other causes

	Ratio per *mille*
Utterpara . .	28 3
Puri .	27 3
Midnapore ...	24 8
Chittagong ...	14·1
Suburbs of Calcutta ...	13·2
Narainganj	12 4
Serampore ...	11·8
Burdwan ...	10·7
Chupra ...	10·7

5. The mortality in relation to *Sex*, *Class* and *Age* stood as follows:—

According to Sex.

	Ratio per *mille.*
Males	30·6
Females	28·4
Ratio of male deaths to every 100 female deaths ...	121

According to Class.

	Ratio per *mille.*
Christians	39 1
Hindus	29 5
Mahomedans ...	29 7

According to Age.

	Ratio per *mille*
Under 1 year .	200 6
1 and under 5 years ...	27 [illegible]
5 " 10 " .	15 9
10 " 15 " ...	[illegible]
15 " 20 " ...	21 4
20 " 30 " ...	18 [illegible]
30 " 40 " ...	1[illegible] 6
40 " 50 " ...	2[illegible] 0
50 " 60 " ...	37 7
60 years and upwards ...	95 [illegible]

W. H. GREGG, *Dip. Pub. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 14*th January* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 29th December 1888.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS							MORTALITY ACCORDING TO—																			
												Disease															Sex				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.								Deaths.		Ratio per 1,000 of Population per annum.		
Districts.	Names of Municipalities.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	15,06[illegible]	1[illegible]17	34,0[illegible]	3	5	8	4.6	7.6	[illegible]2.2	60		.	14	3		7	2[illegible]			21	4.5		10.7	36.6	3[illegible]	12	12	31.5	39.0	100
Midnapore	Midnapore	16,927	[illegible]	[illegible]	10	2	12	15.5	3.1	18.6	500			3	2		1[illegible]	21			[illegible]	3.1	..	24.8	32.5	27.9	8	13	24.6	40.6	61
Hughli	Hughli and Chinsurah	19,179	19,5[illegible]9	38,718	8	6	14	11.7	8.1	18.8	133	1		9	6		6	22	1.3	.	12[illegible]	8.1		8.1	29.5	33.3	13	9	35.2	24.0	144
Serampore	Serampore	13,559	12,937	26,49[illegible]	5	7	12	9.4	13.7	2[illegible].6	71	5		2	7	1	6	2[illegible]	[illegible]8		3.9	13.7	2.0	11.8	41.2	40.1	8	13	31.7	52.2	61
	Utterpara	3,046	2,[illegible]	5,510	3	2	5	28.3	8.9	47.2	15[illegible]				3		3	6				28.3		28.[illegible]	56.6	37.7	4	2	68.3	42.2	200
Howrah	Howrah	53,153	37,6[illegible]	90,813	26	19	45	14.0	10.9	25.8	136	13		9	4		6	32	7.4		5	2.3	.	3.4	18.3	28.6	19	13	18.6	19.0	146
	Bali	7,836	6,97[illegible]	14,815	1	1	2	[illegible].5	3.5	7.0	101			1	2			3			3.5	7.0	.		10.5	31.3	2	1	13.3	7.5	200
24-Pergunnahs	Suburbs of Calcutta	147,205	1[illegible]4,234	271,439	52	63	115	16.8	13.6	24.4	78	43	1	85	64	2	64	26[illegible]	[illegible]2	·2	17.0	13.2	·4	13.2	54.8	33.8	167	98	59.[illegible]	48.0	170
Nuddea	Kishnaghur	13,263	14,214	27,477	6	9	15	11.4	17.0	28.4	67			9	.	1	3	13			17.0		1.9	5.7	24.6	.	7	6	27.4	[illegible]	116
	Ranaghat	4,628	4,035	8,663	2	1	3	12.0	6.0	18.0	200										..	..				12.0	.	.	..	.	... ..
	Santipore	13,76[illegible]	15,[illegible]	29,[illegible]7	9	9	18	15.7	15.7	31.5	100	8	.	12	2	..	3	25	14.0		21.0	3.5	..	5.3	43.8	26.3	14	11	53.1	35.8	127
Jessore	Jessore	4,830	5,[illegible]65	8,495	.		...	.	...	.	.	2					1	[illegible]	12.2	..		.		6.1	18.4	42.8	2	1	21.5	14.2	200
Rajshahye	Rampore Beauleah	10,76[illegible]	8,025	18,791	5	4	9	13.1	10.5	23.6	125	2	..	9	3		[illegible]	17	5.3	.	2.6	7.9	.	7.9	44.7	49.9	11	6	53.1	34.6	183
Darjiling	Darjiling*	5,6[illegible]	2,947	7,974		1	1	.	6.5	6.5	No male birth.	...	..	2	.	..		2	.	.	13.0	.			13.0	6.5	2	.	20.7	.	No female death.
Dacca	Dacca	42,782	37,379	80,161	23	9	32	14.9	5.8	20.[illegible]	255	7	.	14	8		15	41	4.5		9.1	5.2		9.7	28.5	35.6	27	17	32.8	23.6	158
	Narainganj	7,6[illegible]5	4,956	12,561	8	9	17	3[illegible]1	[illegible]7.3	70.4	88	5	.	3	2	1	3	1[illegible]	[illegible]0.7		8.3	8.3	4.1	12.4	53.8	8[illegible]9	9	4	61.5	44.0	225
Chittagong	Chittagong	13,340	8,790	22,13[illegible]	6	7	13	14.1	6.4	[illegible]5	85				2		6	8	.		..	4.7	...	4.1	18.8	2[illegible].1	2	6	7.8	35.5	33
Tipperah	Comillah	8,153	5,353	13,506	2	5	7	7.7	19.3	27.0	40	.	.	2	.	.	2	4			7.7	.	..	7.7	15.4	38.5	1	3	6.4	29.1	33
Patna	Patna City	78,762	81,475	160,257	21	26	47	6.8	8.4	15.3	8[illegible]	2	..	30	9	4	19	[illegible]4	6	.	9.7	2.9	1.3	6.2	20.8	14.9	27	37	17.8	23.6	73
Gya	Gya	38,2[illegible]0	37,831	76,121	18	18	36	[illegible]	12.[illegible]	24.6	100	.	2	28	4		13	47		·1	1[illegible].1	2.7	..	8.9	32.1	29.4	21	26	28.5	35.7	8[illegible]
Shahabad	Arrah	20,960	22,505	43,465	5	4	9	5.9	4.8	10.7	125	.	.	6	1	1	3	11	.		7.2	1.2	1.2	3.6	13.2	9.6	6	5	14.9	11.6	120
Mozufferpore	Mozufferpore	23,084	19,658	42,742	2	5	7	2.4	6.1	8.5	40	.	...	1	.	..	2	3	..		1.2	.	..	2.4	3.7	14.6	..	3	...	7.9	No male death.
Durbhanga	Durbhanga	33,774	32,322	66,096	22	29	51	17.3	22.8	40.1	75	..		15	3		7	25		.	11.8	2.4	.	5.5	19.7	28.3	15	10	23.1	16.1	150
Sarun	Chupra	26,044	27,2[illegible]5	53,249	16	16	32	15.6	15.6	31.2	100	.	..	8	1	.	11	20		..	7.8	1.0		10.7	19.5	13.7	5	15	10.0	28.7	33
Bhagulpore	Bhagulpore	29,640	27,813	57,45[illegible]	14	12	26	12.7	10.8	23.5	116	1	.	6		.	10	17	9		5.4		...	9.1	15.4	22.6	8	9	14.0	16.8	88
Monghyr	Monghyr	28,154	2[illegible],36[illegible]	7,52[illegible]	26	24	50	23.5	21.7	45.2	105	...	..	5	2		6	12	.	.	5.1	1.8		5.4	15.4	23.5	6	11	11.1	19.5	54
Purneah	Purneah	8,463	6,553	15,016	.	...	...		.	..	......	..	..	4			.	4		..	13.9	.	.	..	13.9	38.1	2	2	12.3	15.9	100
Puri	Puri	13,247	11,537	24,784	4	7	11	8.4	14.7	23.1	57	.	.	8			13	21			16.8		...	27.3	44.1	31.5	15	6	58.9	27.0	250
	Total	702,890	619,691	1,322,581	297	303	600	11.7	11.9	23.6	98	95	3	298	128	10	22[illegible]	752	3.7	·1	11.3	5.0	·4	9.0	29.6	31.1	413	339	30.6	28.4	121

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

		13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths among—					Ratio per 1,000 of Population per annum					Deaths										Ratio per 1,000 of Population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan ...	..	13	11	.	..	.	28 5	55 7			5	6	..			6	1	.	1	2	353 9	138 3	...			3 4	7 5	...	84 7	70·2
Midnapore ..	Midnapore ...	..	16	5	..	...	...	32 1	50 0			1			1	1	3	2	3	2	8	70 0			17 1	70·5	21 2	18·9	41 9	50 4	227·3
Hughli ..	Hughli and Chinsurah		17	5	..	.	...	27 9	38 1		.	5	1	1		.	1	1	3	2	3	275 7	19 5	5·7		..	20 3	7 4	30 2	51 8	62 2
Serampore ..	Serampore ...	..	20	1		..		41 2	55 4		.	3	1	2	.	.	3	3	2	2	5	216 7	28 6	31 4	.		25 0	3 4	30 8	54 5	186·9
	Uterpara ...	..	6	.	.			58 6	.	.		1		1		.	2	..	1	1	.	323·0	.	111 6			[illegible]		74·2	141 3	.. ..
Howrah ...	Howrah ..		24	2				15·3	21 3			3	3	3	3	5	3	2	2	1	3	75 6	54 5	24 8	23 7	21 5	6 3	5 4	6·5	4 5	41·6
	Bali ...	.	3	.	.	.	...	11 6		.	..	...	.			..			1		2	.	...		.	.		..	26 9		142·1
24-Pergunnahs ...	Suburbs of Calcutta	9	175	51	..	.	135 6	6·7	43·6		...	31	15	17	4	18	42	55	24	22	41	398 3	48 3	34 2	11 6	52 0	37 6	55 5	36·8	67 4	149·7
Nuddea ...	Krishnaghur ..		5	8	.	.	...	11 9	50 2	...		.			2	2	1	1	1	3	3	.			37 0	50 6	16·8	12 1	15 9	74·0	90 3
	Ranaghat ..	..			.	.	.	.		.	.	.				.			..	..			..			..	...	..		.	..
	Santipore ..		12	13		.	.	30 1	77 6	.	..	5	5	1	1	2		1		3	7	367 7	89 7	13 8	17 0	46·7	.. ..	12 0	..	67 [illegible]	185 3
Jessore ...	Jessore ...			3		.			118	...						2			1	.		..	..	..	..	142 1	..	..	49·5		..
Rajshahye ...	Rampore Beauleah		6	9	.			42 0	47 7	...	.	2	1	1		2	2	1	3	2	3	256 2	36 7	25 0	...	62 6	25 0	14 4	63 6	83 3	162·0
Darjiling ...	Darjiling ..							22 6			...	1	.				1			.	..	429 8	.		.. ..		26 0			..	
Dacca ...	Dacca ...	..	22	15	.	.	.	37 4	14 8			7	3	2	1	3	5	6	4	3	10	191 8	21 2	16 5	6 5	21 4	17 0	26 8	21 8	32 9	93 3
	Narainganj ..		7	6	.			57 6	5 6			3	.	..	1	2	2		3		2	559 1	..	..	45·5	99 5	31 0		112	..	159 5
Chittagong ..	Chittagong ..	..	2	6				17·9	20 4	.		4						1	2	1		360 4	.	.			.	15 6	46 1	4[illegible]	..
Tipperah ..	Comillah ..	.	2	2	.	.	..	17 5	14 1	..		1			...	1			1		1	175 1		.	...	11 5	.		3[illegible]		76 7
Patna ...	Patna City ...	.	5	14				21 9	17 8	..		12	..	7	1	1	7	1	7	.	21	194 8	14 3	21 6	3 6	4 7	12 6	8 3	19 3	...	79 1
Gya ...	Gya ...	.	25	12				31 2	35 6	..		6	3	1	1	2	6	2	.	6	11	174 3	24 6	7 4	7 7	19 3	21 2	8 2	47 9	47 5	111·1
Shahabad ...	Arrah ...	..		4		.		11 7	16 8	.	.	3	1		.	1		1	1	2	2	121 1	11 7	..	.	16 5		8 1	11·4	33 6	36 1
Mozufferpore	Mozufferpore ...	..	2	1	.			8 5	4 2		..	1					.	1			1	51 [illegible]	.	..	...	.	.	7 5	..		21·4
Durbhunga ...	Durbhunga ..		17	5	.			15 3	23 7	.	.	4	2	1	2	.	1	2	2	2	6	153 6	13 7	26 6	18 7	.	3 9	9 3	14 0	23·7	97·7
Sarun ...	Chupra ...	.	15	7	.		..	19 0	21 6	...	.	7		1	1		1	..	1	3	6	232 1	.	8 4	10 1	...	5 5	.	8 3	37·0	89·7
Bhagalpore ..	Bhagalpore ...	.	12	5	.	.	.	15·7	15 1	..	..	6	3	..		1	2	...		1	4	261 3	25 8	...	...	12 4	9 5	..	...	12 2	57 7
Monghyr ...	Monghyr ...		15	2	..		..	17 4	8 3	..	..	5	2	..	2	.	1	1	2	..	4	175 1	16 7		18 1	...	5 0	5 8	16 3	..	65 0
Purneah ...	Purneah ...			1	.		..	7 0	9 2	.	..		.	.	...	...		1		2	1	...	...	...	...	...	...	18 2	...	111 0	64 4
Puri ...	Puri ...	...	21		..	...		11 5	.	.	.	1	1	.			6	.	[illegible]	7	2	171 6	25·9	...	.		59 1	...	62 6	138 2	57 6
	TOTAL ..	9	[illegible]	224				[illegible]	29 7	.		117	57	40	20	41	97	8[illegible]	77	[illegible]	148	[illegible]	27 0	15 9	9 0	21 4	18 6	19 6	25 0	37 7	95 6

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 14th January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Offg. Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of November 1888.

ORISSA CIRCLE.

TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 27 MILES. / MACHGONG ,, 4 ,, }

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down	Total.	Rupees.	Tons.	Rupees.	
4	1. Grain ...	6	15	21	855	21	855	
...	2. Cotton ...	...	... ..	......	.....	......	. ...	
1	3. Oilseeds ...	......	9	9	744	9	744	
1	4. Salt ...	...	12	12	715	12	715	
...	5. Piece-goods ...	.. . .	......	...	... .	......	......	
...	6. Metal ...	... ..	......	..	......	......	......	
2	7. Building materials	. ..	5	5	50	5	50	
2	8. Miscellaneous ..	...	11	11	1,145	11	1,145	
...	9. Fuel ...	...	.. .	......	......	......	......	
5 rafts.	10. Timber	.....	65 No	65 No.	500	65 No.	500	
..	11. Bamboos	......	...	......	......		......	
10 & 5 rafts.	12. Total ...	6	52 & 65 No.	58 & 65 No.	4,009	58 & 65 No.	4,009	
26 & 12 rafts.	13. Total of same month last year.	......	$316\frac{1}{4}$ & 7,235 No.	$316\frac{1}{4}$ & 7,235 No.	2,598	$142\frac{1}{4}$ & 7,235 No.	2,472	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	2	8	10
15. Total number of boats plying passenger No.	14	3	17
15½. Total number of empty boats No.	13	20	33
16. Total registered tonnage, cargo Tons	89	109	198
17. Total registered tonnage, passenger Tons	380	323	703
18. Ton-mileage ...	3,478	5,648	9,126
19. Estimated value of cargo Rs.	530	2,979	3,509
20. Number of passengers No.	460	23	483
21. Rafts, bamboos ,,	. . .	......	......
22. Do., bullahs ,,	......	65	65
23. Estimated value of rafts Rs.	......	500	500
24. Tollage on boats ,,	60-11-0	42-15-0	103-10-0
25. Compounded tollage on boats Rs.	......	......	... ..
26. Tollage on rafts ,,	... ..	30-4-0	30-4-0
27. Total tollage on boats per ton-mile Rs.	......	... ..	0-0-2·18
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ..	133	14	
Total tollage of same month last year ...	233	0	

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	62	3	
2. Tollage per month ...	133	14	
3. Total ...	196	1	
4. Amount credited in the accounts of the month ...	173	0	
5. Balance due at the end of the month ...	23	1	

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
143	1. Grain ...	469	205	674	39,410	674	39,410	
...	2. Cotton ...	.....	......	......	.....	......	.....	
4	3. Oilseeds ...	...	64	64	7,910	64	7,910	
16	4. Salt ...	36	39	75	6,300	75	6,300	
1	5. Piece-goods ...	......	2	2	600	2	600	
...	6. Metal ..	......	......	......	......	...	......	
46	7. Building materials	......	604	604	13,240	329	10,740	
129	8. Miscellaneous ...	543	556	1,099	2,35,410	1,089	2,35,410	
6	9. Fuel ...	35	5	40	100	35	80	
7 rafts.	10. Timber	...	89 No.	89 No.	500	89 No.	500	
9 "	11. Bamboos ...	......	77,200 "	77,200 "	930	77,200 "	930	
345 & 16 rafts	12. Total ...	1,083	1,475 & 77,289 No.	2,558 & 77,289 No.	3,01,430	2,278 & 77,289 No.	3,01,910	
319 & 10 rafts	13. Total of same month last year.	1,009	1,338 & 19,637 No.	2,347 & 19,637 No.	2,93,260	1,930 & 17,137 No.	2,87,530	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	190	155	345
15. Total number of boats plying passenger No.	51	52	103
15½. Total number of empty boats No.	179	164	343
16. Total registered tonnage, cargo Tons	2,302	2,687	4,989
17. Total registered tonnage, passenger Tons	1,228	1,298	2,526
17½. Total registered tonnage, empty boats. Tons	1,345	1,021	2,366
18. Ton-mileage ...	129,824	142,382	272,206
19. Estimated value of cargo Rs.	1,58,930	1,44,070	3,03,000
20. Number of passengers No.	1,666	1,986	3,652
21. Rafts, bamboos "	.. ...	77,200	77,200
22. Do., timbers "	.... .	89	89
23. Estimated value of rafts Rs.	.... ..	1,430	1,430
24. Tollage on boats "	2,143-11-6	2,234-7-11	4,378-3-5
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	...	279-9-3	279-9-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3 1
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-9

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	4,657	12	8
Total tollage of same month last year ...	3,873	6	8

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	4,612	7	3
2. Tollage per month ...	4,657	12	8
3. Total ...	9,300	3	11
4. Amount credited in the accounts of the month ...	3,883	3	11
5. Balance due at the end of the month ...	5,417	0	0

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
63	1. Grain ...	191	......	191	14,480	191	14,480	
...	2. Cotton .	......	......	......	...	.....	......	
13	3. Oilseeds ..	65	.....	65	3,810	65	3,810	
28	4. Salt ...	......	48	48	4,000	48	4,000	
...	5. Piece-goods	......	......	......	......	......		
...	6. Metal ...	......	......	...	......	... ..		
8	7. Building materials	24	......	24	220	24	220	
37	8. Miscellaneous ...	16	65	81	18,030	81	18,030	
26	9. Fuel ...	198	......	198	550	198	550	
4 rafts.	10. Timber ..	638 No.	...	638 No.	1,250	638 No.	1,250	
...	11. Bamboos ...	...	.....	..	... .	......	......	
175 & 4 rafts.	12. Total ...	494 & 638 No.	113	607 & 638 No.	42,340	607 & 638 No.	42,340	
166 & 7 rafts.	13. Total of same month last year ...	495 & 1,883 No	187	682 & 1,883 No.	47,280	682 & 1,883 No.	47,280	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	120	55	175
15. Total number of boats plying passenger No	2	2	4
15½. Total number of empty boats No.	30	69	99
16. Total registered tonnage, cargo Tons	883	315	1,198
17. Total registered tonnage, passenger Tons	8	25	33
17½. Total registered tonnage, empty boats Tons	99	258	357
18. Ton-mileage ...	12,241	3,267	15,508
19. Estimated value of cargo Rs.	23,060	18,030	41,090
20. Number of passengers No.	6	10	16
21. Rafts, bamboos "	......	......	.. ...
22. Do., timber "	638	......	638
23. Estimated value of rafts Rs.	1,250	......	1,250
24. Tollage on boats "	277-0-9	122-14-3	399-15-0
25. Compounded tollage on boats Rs.	......	.. ..	. ...
26. Tollage on rafts "	51-2-9	......	51-2-9
27. Total tollage on boats per ton-mile Rs.	......	... .	0-0-4·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-12-8

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	451	1	9
Total tollage of same month last year	618	14	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	423	1	6
2. Tollage per month ...	451	1	9
3. Total ...	874	3	3
4. Amount credited in the accounts of the month	539	3	5
5. Balance due at the end of the month ...	334	15	10

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
42	1. Grain ...	113½	4	117½	5,646	117½	5,646	
......	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ..	......	8	8	778	8	778	
3	4. Salt ...	......	8	8	1,135	8	1,135	
3	5. Piece-goods ...	......	4½	4½	1,320	4½	1,320	
1	6. Metal ...	2	......	2	1,240	2	1,240	
2	7. Building materials	......	16	16	13	......	...	
14	8. Miscellaneous ...	6½	27	33½	5,314	33½	5,314	
13	9. Fuel ...	......	91½	91½	237	......	......	
2 rafts.	10. Timber ...	......	28 No.	28 No.	84	28 No.	84	
......	11. Bamboos ...	......	......	......	......	......	......	
80 & 2 rafts.	12. Total ...	122	159 & 28 No.	281 & 28 No.	15,767	173½ & 28 No.	15,517	
132 & 10 rafts.	13. Total of same month last year.	169½ & 20 No.	581½ & 529 No.	751 & 549 No.	25,663	250 & 549 No.	25,452	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	44	36	80
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	36	95	131
16. Total registered tonnage, cargo ... Tons	245	326	571
17. Total registered tonnage, passenger Tons	......	...	......
18. Ton-mileage	3,083	3,591	6,674
19. Estimated value of cargo Rs.	6,969	8,714	15,683
20. Number of passengers No.	251½	171½	423
21. Rafts, bamboos „	......	......	......
22. Do., bullahs „	......	168	168
23. Estimated value of rafts Rs.	......	84	84
24. Tollage on boats „	53-12-6	76-1-3	129-15-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	10-14-6	10-14-6
27. Total tollage on boats per ton-mile Rs	......	......	0-0-3·73
28. Total tollage on rafts per 100 cubic foot Rs.	......	......	6-7-10

	Rs. A. P.
Total tollage of month—24+25+26 ...	140 12 3
Total tollage of same month last year ...	333 9 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	......
2. Tollage per month ...	140 12 3
3. Total ...	140 12 3
4. Amount credited in the accounts of the month ...	140 12 3
5. Balance due at the end of the month ...	Nil.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
23	1. Grain ...	58	......	58	2,690	58	2,690	
...	2. Cotton ...	......	......	......	......	......	......	
3	3. Oilseeds ...	......	9	9	1,028	9	1,028	
2	4. Salt ...	4	2	6	720	6	720	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
...	7. Building materials	......	......	......	......	......	......	
3	8. Miscellaneous ...	......	10	10	1,380	10	1,380	
1	9. Fuel ...	......	3	3	81	3	81	
7 rafts.	10. Timber ...	......	159 No.	159 No.	216	159 No.	216	
...	11. Bamboos ...	......	......	......	......	......	......	
32 & 7 rafts.	12. Total ...	62	24 & 159 No.	86 & 159 No.	6,115	86 & 159 No.	6,115	
33	13. Total of same month last year.	45½	116	161½	6,809	86	6,677	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	24	8	32
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	11	19	30
16. Total registered tonnage cargo ... Tons	95	56	151
17. Total registered tonnage, passenger Tons	......	......	......
18. Ton-mileage ...	2,365	1,820	4,185
19. Estimated value of cargo Rs	3,154	2,745	5,899
20. Number of passengers No.	214	171½	385½
21. Rafts, bamboos c. ft.	......	......	......
22. Do., bullahs "	......	954	954
23. Estimated value of rafts Rs.	...	216	216
24. Tollage on boats "	25-0-9	14-11-9	39-12-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	9-12-0	9-12-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·82
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-15-4

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	49 8 6
Total tollage of same month last year	66 11 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	......
2. Tollage per month ...	49 8 6
3. Total ...	49 8 6
4. Amount credited in the accounts of the month ...	49 8 6
5. Balance due at the end of the month ...	......

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
2	1. Grain ...	2	......	2	31	2	31	
1	2. Cotton ...	......	3	3	158	3	158	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5 Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
3	7. Building materials	24	......	24	42	......	......	
1	8. Miscellaneous ...	3	......	3	830	3	830	
...	9. Fuel ...	...	......	......	......	......	......	
4 rafts	10. Timber ...	48 No.	......	48 No.	20	48 No.	20	
...	11. Bamboos ..	......	......	......	......	......	......	
7 & 4 rafts.	12. Total ...	29 & 48 No.	3	32 & 48 No	1,081	8 & 48 No.	1,039	
...	13. Total of same month last year	......	......	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	6	1	7
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	11	14	25
16. Total registered tonnage, cargo ... Tons.	58	6	64
17. Total registered tonnage, passenger Tons	......	......	......
18. Ton-mileage ...	342	228	570
19. Estimated value of cargo Rs	903	158	1,061
20. Number of passengers No.	......	......	......
21. Rafts, bamboos c.ft.	......	......	......
22. Do., bullahs „	288	......	288
23. Estimated value of rafts Rs.	20	......	20
24. Tollage on boats „	5-6-6	2-1-6	7-8-0
25. Compounded tollage on boats ... Rs.	......	...	......
26. Tollage on rafts „	1-9-4	......	1-9-4
27. Total tollage on boats per ton-mile Rs	......	......	0-0-2·52
28. Total tollage on rafts per 100 cubic feet Rs.	.	......	0-8-10

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	9 1 4
Total tollage of same month last year	......

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	......
2. Tollage per month ..	9 1 4
3. Total ...	9 1 4
4. Amount credited in the accounts of the month ...	9 1 4
5. Balance due at the end of the month ...	......

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53° MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,106	1. Grain ...	4,985	320	5,305	2,51,484	5,305	2,51,484	
1	2. Cotton ...	......	......	......	400	......	400	
13	3. Oilseeds ...	28	72	100	10,668	100	10,668	
116	4. Salt ...	......	1,119	1,119	1,04,590	1,119	1,04,590	
8	5. Piece-goods ...	34	81	115	3,13,740	115	3,13,740	
6	6. Metal	27	7	34	33,620	34	33,620	
33	7. Building materials	335	9	344	1,547	344	1,547	
321	8. Miscellaneous ...	855	492	1,347	3,23,749	1,347	3,23,749	
13	9. Fuel ...	53	32	85	1,613	85	1,613	
108 rafts.	10. Timber ...	32,973 c. ft.	6 c. ft.	32,979 c. ft.	24,999	32,979 c. ft.	24,999	
3 „	11. Bamboos ...	625 „	100 „	725 „	45	725 „	45	
1,617 & 111 rafts.	12. Total ...	6,317 & 33,598 c. ft.	2,132 & 106 c. ft.	8,449 & 33,704 c. ft.	10,66,455	8,449 & 33,704 c. ft.	10,66,455	
1,156 & 132 rafts.	13. Total of same month last year.	5,934 & 27,537 c. ft.	1,745 & 371 c. ft.	7,679 & 27,908 c. ft.	5,91,344	7,679 & 27,908 c. ft.	5,91,344	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,288	329	1,617
15. Total number of boats plying passenger No.	478	555	1,033
15½. Total number of empty boats No.	575	945	1,520
16. Total registered tonnage, cargo Tons	16,746	4,974	21,720
17. Total registered tonnage, passenger Tons	2,734	3,274	6,008
17½. Total registered tonnage, empty boats Tons	2,213	3,574	5,787
18. Ton-mileage	464,238	226,278	690,516
19. Estimated value of cargo Rs.	4,72,623	5,68,788	10,41,411
20. Number of passengers No.	5,664	9,512	15,176
21. Rafts, bamboos c. ft.	625	100	725
22. Do., bullahs „	32,973	6	32,979
23. Estimated value of rafts Rs	25,029	15	25,044
24. Tollage on boats „	6,793-10-3	3,790-3-3	10,583-13-6
25. Compounded tollage on boats Rs	......	......	......
26. Tollage on rafts „	408-6-3	0-12-0	409-2-3
27. Total tollage on boats per ton-mile „	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet „	......	......	1-3-5

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	10,992	15	9
Total tollage of same month last year ...	8,843	9	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	5,733	8	11
2. Tollage per month ...	10,992	15	9
3. Total ...	16,726	8	8
4. Amount paid into Treasury during the month ...	11,731	2	10
5. Balance due at the end of the month ...	4,995	5	10

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
367	1. Grain ...	1,789	......	1,789	79,113	1,789	79,113	
...	2. Cotton ...	. .	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	...	......	
23	4. Salt ...	......	165	165	18,400	165	18,400	
10	5. Piece-goods ...	... ..	29	29	20,500	29	20,500	
2	6. Metal ..	......	13	13	1,750	13	1,750	
9	7. Building materials	14	24	38	265	38	265	
682	8. Miscellaneous ...	624	186	810	64,841	810	64,841	
14	9. Fuel ...	4	71	75	514	75	514	
19 rafts	10. Timber ...	227 c.ft	11,932 c ft.	12,159 c. ft.	5,555	12,159 c.ft.	5,555	
6 „	11. Bamboos ...	750 „	......	750 „	56	750 „	56	
1,107 & 25 rafts.	12. Total ..	2,431 & 977 c. ft.	488 & 11,932 c. ft.	2,919 & 12,909 c. ft.	1,90,994	2,919 & 12,909 c. ft.	1,90,994	
1,100 & 14 rafts.	13. Total of same month last year.	2,019	584 & 4,677 c. ft.	2,603 & 4,677 c. ft.	1,89,436	2,603 & 4,677c.ft.	1,89,436	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	600	507	1,107
15. Total number of boats plying passenger No.	34	59	93
16. Total registered tonnage, cargo Tons	5,343	2,716	8,059
17. Total registered tonnage, passenger Tons	390	452	842
18. Ton-mileage	88,389	48,941	1,37,330
19. Estimated value of cargo Rs	1,16,450	68,933	1,85,383
20. Number of passengers No.	1,308	1,377	2,685
21. Rafts, bamboos c. ft.	750	......	750
22. Do., bullahs „	227	11,932	12,159
23. Estimated value of rafts Rs.	300	5,311	5,611
24. Tollage on boats „	1,547-8-3	855-2-0	2,402-10-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	8-13-6	117-10-6	126-8-0
27. Total tollage on boats per ton-mile „	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet „	......	......	0-15-8

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,529	2	3
Total tollage of same month last year	2,363	11	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	2,274	3	6
2. Tollage per month ...	2,529	2	3
3. Total ...	4,803	5	9
4. Amount paid into Treasury during the month	3,714	2	0
5. Balance due at the end of the month ...	1,089	3	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
4	1. Grain ...	......	29	29	2,285	29	2,285	
	2. Cotton ...	......	......	...	......	......	......	
26	3. Oilseeds ...	2	363	365	38,037	365	38,037	
5	4. Salt ...	115	......	115	9,257	115	9,257	
51	5. Piece-goods ...	281	18	299	46,634	299	46,634	
...	6. Metal ...	2	......	2	1,480	2	1,480	
13	7. Building materials	34	61	95	582	......	......	
75	8. Miscellaneous ...	40	556	596	83,304	319	82,900	
2	9. Fuel ... boats	......	11	11	150	......	......	
	rafts	......	84	84	210	84	210	
...	10. Timber rafts	....	8	8	190	8	190	
...	11. Bamboos rafts	......	182	182	3,340	182	3,340	
176	12. Total ...	474	1,312	1,786	1,85,469	1,403	1,84,333	
189	13. Total of same month last year.	293	1,678	1,971	96,641	1,249	95,548	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	62	114	176
15. Total number of boats plying passenger No.	10	11	21
15½. Total number of empty boats No.	80	20	100
16. Total registered tonnage, cargo Tons	769	1,682	2,151
17. Total registered tonnage, passenger Tons	163	151	314
17½. Total registered tonnage, empty boats Tons	414	107	551
18. Ton-mileage ...	75,669	1,31,905	2,07,574
19. Estimated value of cargo Rs.	61,904	1,19,825	1,81,729
20. Number of passengers No.	438½	461	899½
21. Rafts, bamboos c. ft.	......	27,330	27,330
22. Do., bullahs "	....	6,931	6 931
23. Estimated value of rafts Rs.	......	3,740	3,740
24. Tollage on boats "	572-5-6	879-6-6	1,451-12-0
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts "	......	158-6-6	158-6-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·4
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-7·4

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,760	2	6
Total tollage of same month last year ...	1,249	12	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	236	4	9
2. Tollage per month ...	1,760	2	6
3. Total ...	1,996	7	3
4. Amount credited in the accounts of the month	1,684	9	6
5. Balance due at the end of the month ..	311	13	9

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain ...	......	137	137	11,453	137	11,453	
1	2. Cotton ...	2	2	4	4,130	4	4,130	
21	3. Oilseeds ...	2	284	286	26,740	286	26,740	
23	4. Salt ...	233	......	233	20,723	233	20,723	
2	5. Piece-goods ...	28	6	34	95,050	34	95,050	
2	6. Metal ...	16	1	17	1,935	1	135	
11	7. Building materials	4	52	56	577	30	174	
61	8. Miscellaneous ...	110	315	425	25,318	250	25,179	
19	9. Fuel ...	195	66	261	3,056	66	915	
1	10. Timber ...	......	10	10	559	6	219	
Rafts.	11. Bullahs ...	......	215	215	680	215	680	
	Bamboos ..	......	1	1	40	1	40	
	Firewood ...	......	284	284	2,051	284	2,051	
148	12. Total ...	590	1,373	1,963	1,92,312	1,547	1,87,489	
124	13. Total of same month last year.	470	1,313	1,783	1,31,856	1,495	1,31,650	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	50	98	148
15. Total number of boats plying passenger No.	4	4	8
15½. Total number of empty boats No.	73	12	85
16. Total registered tonnage, cargo Tons	982	1,528	2,510
17. Total registered tonnage, passenger Tons	71	91	162
17½. Total registered tonnage, empty boats Tons	312	43	355
18. Ton-mileage ...	61,496	72,146	1,33,642
19. Estimated value of cargo Rs.	1,21,584	67,957	1,89,541
20. Number of passengers No.	804	1,100	1,904
21. Rafts, bamboos c. ft.	......	200	200
22. Do., bullahs "	......	16,150	16 150
22½ Do., firewood "	......	21,325	21,325
23. Estimated value of rafts Rs.	......	2,771	2,771
24. Tollage on boats "	330-5-11	522-10-0	852-15-11
25. Compounded tollage on boats Rs.	292-0-0	292-0-0	584-0-0
26. Tollage on rafts "	......	65-5-0	65-5-0
27. Total tollage on boats per ton-mile Rs.	......	......	0 0-2·06
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-2-9

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,502 1 11
Total tollage of same month last year ...	1,063 1 5

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	46 8 9
2. Tollage per month ..	1,502 1 11
3. Total ...	1,548 10 8
4. Amount credited in the accounts of the month ...	1,339 0
5. Balance due at the end of the month ...	209 12 11

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees	Remarks.
21	1. Grain ...	......	390	390	43,639	390	43,639	
..	2. Cotton ...	.. .	.....	......	......	......	......	
15	3. Oilseeds ...	3	271	274	33,357	274	33,357	
...	4. Salt ...	6	......	6	581	6	581	
...	5. Piece-goods ...	4	3	7	10,175	7	10,175	
...	6. Metal ...	1	1	2	1,680	2	1,680	
2	7. Building materials	......	21	21	750	14	500	
16	8. Miscellaneous ...	25	142	167	17,704	167	17,704	
...	9 Fuel ...	......	......	... ..	..	......	..	
Rafts	10. Timber ..	.. ...	8	8	150	8	150	
Rafts	11. Bamboos ..	...	11	11	198	11	198	
54	12 Total ..	39	847	886	1,08,234	879	1,07,984	
22	13. Total of same month last year	26	438	464	31,838	401	29,363	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3	51	54
15. Total number of boats plying passenger No.	9	8	17
15½. Total number of empty boats No.	23	13	36
16. Total registered tonnage, cargo Tons.	44	1,094	1,138
17. Total registered tonnage, passenger Tons.	243	216	459
17½. Total registered tonnage, empty boats Tons.	98	47	145
18. Ton-mileage ...	4,580	23,397	27,977
19. Estimated value of cargo Rs.	15,417	92,469	1,07,886
20. Number of passengers No.	650	720	1,370
21. Rafts, bamboos c. ft.	......	1,650	1,650
22. Do., bullahs „	......	600	600
23. Estimated value of rafts Rs.	......	348	348
24. Tollage on boats „	25-11-6	326-4-6	352-0 0
25. Compounded tollage on boats Rs	75-0-0	171-0-0	246-0-0
26. Tollage on rafts „	......	3-13-6	3-13-6
27. Total tollage on boats per ton-mile „	......	......	0-0-4
28. Total tollage on rafts per 100 cubic feet ...	......	......	0-6-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	601	13	6
Total tollage of same month last year ...	377	8	10

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	167	1	0
2. Tollage per month ...	601	13	6
3. Total ...	768	14	6
4. Amount credited in the accounts of the month ...	732	12	9
5. Balance due at the end of the month ...	36	1	9

ABSTRACT FOR THE MONTH OF NOVEMBER 1888 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1888-89.		Traffic, 1887-88.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	133 14 0	1,408 0 9	233 0 6	2,853 7 6	
Kendrapara Canal System	4,657 12 8	29,426 3 1	3,873 6 8	25,403 9 1	
High Level, Range I ...	451 1 9	3,824 15 6	618 14 3	4,112 5 6	
Ditto, " II ...	140 12 3	1,605 1 6	333 9 9	2,495 8 3	
Ditto, " III ..	49 8 6	765 3 6	66 11 6	751 11 6	
Jajepore Canal .	9 1 4	48 6 10	......	. .	
Total Orissa Circle ...	5,442 2 6	37,077 15 2	5,125 10 8	35,616 9 10	
South-Western Circle.					
Midnapore Canal ...	10,992 15 9	88,077 7 6	8,843 9 3	78,888 10 3	
Hidgellee Tidal Canal ...	2,529 2 3	42,330 1 6	2,363 11 3	36,958 9 6	
Total South-Western Circle	13,522 2 0	1,30,407 9 0	11,207 4 6	1,15,847 3 9	
Sone Circle.					
Patna Canal System ...	1,760 2 6	18,049 1 6	1,249 12 0	17,154 2 0	
Arrah ditto ...	1,502 4 11	13,676 15 5	1,063 1 5	10,447 15 3	
Buxar ditto ...	601 13 6	6,256 15 6	377 8 10	4,954 3 8	
Total Sone Circle ...	3,864 4 11	37,983 0 5	2,690 6 3	32,556 4 11	
Grand Total ...	22,828 9 5	2,05,468 8 7	19,023 5 5	1,84,020 2 6	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	733	694	873 0 10	3,194	1,963	3,601 12 4	256	451	290 6 11	2,503	3,736	3,111 11 5
Total Orissa Circle ...	733	694	873 0 10	3,191	1,963	3,601 12 4	256	451	290 6 11	2,503	3,736	3,141 11 5

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1888-89.		Earnings, 1887-88.		Remarks
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	6,315 3 4	40,679 11 6	5,416 1 7	38,758 8 3	
Midnapore Canal ...	10,992 15 9	88,077 7 6	8,843 9 3	78,888 10 3	
Hidgellee Tidal Canal ...	2,529 2 3	42,330 1 6	2,363 11 3	36,958 9 6	
Sone Canals ...	3,864 4 11	37,983 0 5	2,690 6 3	32,556 4 11	
Total ...	23,701 10 3	2,09,070 4 11	19,313 12 4	1,87,162 0 11	

Calcutta,
The 15th January 1889.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of November 1888.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
174	1. Grain ...	1,626	33	1,659	76,263	1,659	76,263	
1	2. Cotton ...	......	2	2	900	2	900	
6	3. Oilseeds ...	5	......	5	465	5	465	
30	4. Salt ...	......	239	239	20,150	239	20,150	
8	5. Piece-goods ...	......	14	14	9,400	14	9,400	
2	6. Metal ...	......	4	4	1,200	4	1,200	
8	7. Building materials	8	20	28	293	28	293	
599	8. Miscellaneous ...	410	121	531	43,266	531	43,266	
8	9. Fuel ...	4	30	34	367	34	367	
10 rafts	10. Timber ...	1,352 c. ft.	200 c. ft.	1,552 c. ft.	1,415	1,552 c. ft.	1,415	
36 „	11. Bamboos ...	1,575 „	37 „	1,612 „	317	1,612 „	317	
836 & 46 rafts.	12. Total ...	2,053 & 2,927 c. ft.	463 & 237 c. ft.	2,516 & 3,164 c. ft.	1,54,036	2,516 & 3,164 c ft.	1,54,036	
875 & 17 rafts	13. Total of same month last year	2,100 & 1,069 c. ft.	1,332 & 6 c. ft.	3,432 & 1,074 c. ft.	2,51,363	3,432 & 1,074 c.ft.	2,51,363	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	483	353	836
15. Total number of boats plying passenger No.	54	66	120
16. Total registered tonnage, cargo Tons	4,508	1,984	6,492
17. Total registered tonnage, passenger Tons	678	684	1,362
18. Ton-mileage ...	1,33,740	70,236	2,03,976
19. Estimated value of cargo Rs.	1,04,189	48,115	1,52,304
20. Number of passengers No.	1,462	1,410	2,872
21. Rafts, bamboos C. ft.	1,575	37	1 612
22. Do., bullahs „	1,352	200	1,552
23. Estimated value of rafts Rs.	1,530	202	1,732
24. Tollage on boats „	2,365-14-9	1,231-4-3	3,597-3-0
25. Compounded tollage on boats Rs.	3-12-0	14-7-0	18-3-0
26. Tollage on rafts „	29-15-0	2-9-6	32-8-6
27. Total tollage on boats per ton-mile „	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet „	......	......	1-0-5

	Rs. A. P.
Total tollage of month—24+25+26 ...	3,647 14 6
Total tollage of same month last year ...	5,126 15 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	5,765 9 9
2. Tollage per month ...	3,647 14 6
3. Total ...	9,413 8 3
4. Amount paid into treasury during the month ...	5,523 11 9
5. Balance due at the end of the month ...	3,889 12 6

Abstract for the month of November 1888 as compared with the corresponding month of the previous year.

	1888-89. During the month.	1888-89. To end of the month.	1887-88. During the month.	1887-88. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	3,647 14 6	42,143 4 0	5,126 15 9	28,578 8 6

CALCUTTA,
The 15th January 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Calcutta and Eastern Canals.

Statement showing Quantities of Goods carried during the month of November 1888.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value,	Quantity.	Value.	
		Up.	Down.	Total.	Rupees,	Tons.	Rupees.	
617	1. Grain ...	8,539	......	8,539	8,10,354	8,539	8,10,354	* For detail see next page.
......	2. Cotton ...	......	......	......	......	......	......	
25	3. Oilseeds ...	458	......	458	51,300	458	51,300	
543	4. Salt ...	518	8,915	9,433	8,91,422	9,438	8,91,422	
......	5. Piece-goods ...	......	......	......				
7	6. Metal ...	13	32	45	7,050	45	7,050	
155	7. Building materials	3,322	86	3,408	49,095	3,408	49,095	
3,751	8. Miscellaneous* ...	32,962	1,149	34,111	38,84,658	34,111	38,84,658	
816	9. Fuel ...	10,796	5,443	16,239	1,35,615	16,239	1,35,615	
	10. Timber ...	......	......	......	...	......	..	
1 raft.	11. Bamboos ...	75 c. ft.	..	75 c. ft	9	75 c. ft.	9	
5,914 & 1 raft.	12. Total ...	56,608 & 75 c. ft.	15,625	72,233 & 75 c. ft.	58,29,503	72,233 & 75 c. ft.	58,29,503	
5,480 & 3 rafts.	13. Total of same month last year.	54,968 & 60 c. ft.	13,535	68,503 & 60 c. ft.	50,56,207	68,503 & 60 c. ft	50,56,207	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	5,091	823	5,914
14a. Ditto empty "	2,017	1,088	3,105
15. Total number of boats plying passenger No.	336	8	344
16. Total registered tonnage, cargo Tons	1,35,702	41,241	1,76,943
17. Total registered tonnage, passenger Tons	912	24	936
18. Ton-mileage ...	12,08,695	4,12,410	16,21,105
19. Estimated value of cargo Rs.	47,81,142	10,48,352	58,29,494
20. Number of passengers No.	1,306	31	1,337
21. Rafts, bamboos C. ft.	75	. .	75
22. Do., bullahs "	......	......	
23. Estimated value of rafts Rs.	9	... ..	9
24. Tollage on boats "	33,486-8-0	10,172-2-0	43,658-10-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	0-4-0	......	0-4-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-5·17
28. Ditto on rafts per 100 cubic feet Rs.	......	......	0-5-4

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	43,658	14	0
Total tollage of same month last year ..	42,440	15	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	2,011	15	3
2. Tollage per month ...	43,658	14	0
3. Total ...	45,670	13	3
4. Amount paid into treasury during the month ...	43,862	8	6
5. Balance due at the end of the month ...	1,808	4	9

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,489	(a) Jute ...	27,512	......	27,512	30,81,400	27,512	30,81,400	
51	(b) Jaggery ...	386	13	399	44,700	399	44,700	
11	(c) Sugar ...	96	......	96	29,700	96	29,700	
7	(d) Tobacco ...	8	24	32	7,200	32	7,200	
1,156	(e) Fish ...	164	......	164	46,137	164	46,137	
5	(f) Hides ...	5	......	5	1,060	5	1,060	
66	(g) Poultry ...	13	......	13	10,978	13	10,978	
74	(h) Hay and straw ...	362	......	362	6,330	362	6,330	
65	(j) Oils ...	14	852	866	1,21,275	866	1,21,275	
35	(k) Earthenware ...	52	......	52	737	52	737	
792	(m) Other miscellaneous ...	4,350	260	4,610	5,35,141	4,610	5,35,141	
3,751	Total Miscellaneous...	32,962	1,149	34,111	38,84,658	34,111	38,84,658	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of November 1888.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
2,840	1. Grain ...	10,076	3	10,079	8,24,838	10,079	8,24,838	* For detail see next page.
2	2. Cotton ...	9	......	9	4,500	9	4,500	
17	3. Oilseeds ...	265	......	265	29,700	265	29,700	
107	4. Salt ...	601	663	1,264	1,18,475	1,264	1,18,475	
......	5. Piece-goods ...	......	......	......	......	......	......	
......	6. Metal ...	......	......	......	......	......	......	
265	7. Building materials	2,569	......	2,569	11,481	2,569	11,481	
1,250	8. Miscellaneous* ...	3,250	43	3,293	3,67,167	3,293	3,67,167	
258	9. Fuel ...	2,975	43	3,018	25,192	3,018	25,192	
6 rafts.	10. Timber ...	6,772 c. ft.	2,735 c. ft.	9,507 c. ft.	23,767	9,507 c ft.	23,767	
2 ,,	11. Bamboos ...	108 ,,	......	108 ,,	13	108 ,,	13	
4,739 & 8 rafts.	12. Total ...	19,745 & 6,880 c. ft.	752 & 2,735 c. ft.	20,497 & 9,615 c. ft.	14,05,133	20,497 & 9,615 c. ft.	14,05,133	
4,270 & 16 rafts.	13. Total of same month last year ...	22,626 & 3,582 c. ft.	553 & 2,400 c. ft.	23,179 & 5,982 c. ft.	14,97,970	23,179 & 5,982 c. ft.	14,97,970	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	4,347	392	4,739
14a. Ditto empty ... ,,	2,069	360	2,429
15. Total number of boats plying passenger ... No.	617	29	646
16. Total registered tonnage, cargo ... Tons	56,367	4,029	60,396
17. Total registered tonnage, passenger ... Tons	2,147	121	2,268
18. Ton-mileage	5,73,379	64,464	6,37,843
19. Estimated value of cargo Rs.	13,11,233	70,120	13,81,353
20. Number of passengers No.	6,640	323	6,963
21. Rafts, bamboos C. ft.	108	......	108
22. Do., bullahs ... ,,	6,772	2,735	9,507
23. Estimated value of rafts Rs.	16,943	6,837	23,780
24. Tollage on boats ,,	10,841-4-6	1,014-1-6	11,855-6-0
25. Compounded tollage on boats ... Rs	......	......	......
26. Tollage on rafts ,,	29-6-0	13 8-0	42-14-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·56
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-7-1

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	11,898	4	0
Total tollage of same month last year ...	12,280	1	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	517	7	3
2. Tollage per month ...	11,898	4	0
3. Total ...	12,415	11	3
4. Amount paid into treasury during the month ...	12,111	13	3
5. Balance due at the end of the month ...	303	14	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
43	(a) Jute ...	278	......	278	31,180	278	31,180	
88	(b) Jaggery ...	424	1	425	47,600	425	47,600	
......	(c) Sugar ...	......	......	......	......	......	......	
13	(d) Tobacco ...	21	8	29	9,720	29	9,720	
150	(e) Fish ...	28	1	29	8,320	29	8,320	
2	(f) Hides ...	9	......	9	2,640	9	2,640	
10	(g) Poultry ...	3	......	3	1,348	3	1,348	
506	(h) Hay and straw...	756	......	756	11,729	756	11,729	
59	(j) Oils ...	52	......	52	7,375	52	7,375	
108	(k) Earthenware ...	110	2	112	1,567	112	1,567	
271	(m) Other miscellaneous ...	1,569	31	1,600	2,45,688	1,600	2,45,688	
1,250	Total Miscellaneous...	3,250	43	3,293	3,67,167	3,293	3,67,167	

ABSTRACT FOR THE MONTH OF NOVEMBER 1888, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	43,658	14	0	2,35,377	13	6	42,440	15	0	2,15,245	2	3
Tolly's Nullah	11,898	4	0	81,362	10	0	12,280	1	0	76,616	11	3
Total ...	55,557	2	0	3,16,740	7	6	54,721	0	0	2,91,861	13	6

CALCUTTA,
The 15*th January* 1889.

G. A. G. SHAWE,
Under-Secretary to the Government of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of November 1888.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
539	1. Grain ...	169	6,657	6,826	4,37,136	6,826	4,37,136	
1	2. Cotton ...	......	17	17	2,000	17	2,000	
130	3. Oilseeds ...	37	1,843	1,880	2,09,529	1,880	2,09 529	
306	4. Salt ...	2,784	......	2,784	2,41,706	2,784	2,41,706	
......	5. Piece-goods ...	......	......	......	......	......	......	
12	6. Metal ...	48	21	69	47,180	69	47,180	
47	7. Building materials	294	138	432	4,400	432	4,400	
1,122	8. Miscellaneous ...	1,828	9,408	11,236	18,58,957	11,236	18,58,957	
71	9. Fuel ...	529	101	630	7,381	630	7,381	
5 rafts	10. Timber ...	13 c. ft.	3,698 c. ft.	3,711 c. ft.	2,780	3,711 c. ft.	2,780	
9 „	11. Bamboos ...	153 „	......	153 „	16	153 „	16	
2,228 & 14 rafts.	12. Total ...	5,689 & 166 c. ft.	18,185 & 3,698 c. ft.	23,874 & 3,864 c. ft.	28,11,085	23 874 & 3,864 c. ft	28,11,085	
2,516 & 28 rafts.	13. Total of same month last year	7,139 1/28 & 454 c. ft.	18,074 & 11,156 c. ft.	25,213 1/28 & 11,610 c. ft.	26,75,129	25,213 1/28 & 11,610 c. ft.	26,75,129	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	741	1,487	2,228
14A. Ditto empty boats, steamers, &c. No.	1,020	93	1,113
15. Total number of boats plying passenger No.	743	1,309	2,052
15A. Ditto empty boats „	93	37	130
16. Total registered tonnage, cargo Tons	16,772	36,780	53,552
17. Total registered tonnage, passenger Tons	594	370	964
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	7,52,045	20,56,244	28,08,289
20. Number of passengers No.	3,774	10,307	14 081
21. Rafts, bamboos C. ft.	153	......	153
22. Do., bullahs „	13	3,698	3,711
23. Estimated value of rafts Rs.	56	2,740	2,796
24 Tollage on boats „	3,839-11-0	9,444-15-0	13,284-10-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	2-1-0	34-6-6	36-7-6
27.* Total tollage on boats per ton mile ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-15-1

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	13,321	1	6
Total tollage of same month last year ...	13,817	3	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	684	9	6
2. Tollage per month ...	13,321	1	6
3. Total ...	14,005	11	0
4. Amount paid into Treasury during the month ...	13,438	5	10
5. Balance due at the end of the month ...	567	5	2

* Boats in these rivers do not pay per mile.

Abstract for the month of November 1888 *as compared with the corresponding month of the previous year.*

	1888-89.		1887-88.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	13,321 1 6	1,54,152 5 2	13,817 3 3	1,58,704 15 6

CALCUTTA,
The 15*th January* 1889.

G. A. G. SHAWE,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1888-89.

Areas leased for Irrigation up to the end of November 1888.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised	Approximate area of land irrigated during the year up to the end of the month	Approximate area of land under irrigation up to the same date last year.	Details of area leased: Five years, all crops	Five years, kharif.	Annual leases: Kharif.	Rabi.	Sugar-cane.	Bhadoi.	Hot weather.	Total.	Grand Total.	Rainfall, 1888-89: During month.	Up to end of month.	Rainfall, 1887-88: During month.	Up to end of month.	Remarks.
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inch.	Inch.	Inch.	Inch	
Orissa	Cuttack	Taldunda, 1st Reach.	1,342	249	4	9,832	4,874	...	9,832	.	228	14		......	240	10,072	11·90	69 48	1·53	51 51	
		Taldunda, 2nd Reach.	566	24																	
		Machgong	776	95	32	27,021	19 763	...	27,021		1	..	...	...		27,022	5·80 1·90	48·52 48·53	0·45 0·90	47·35 24·25	
		Kendrapara	1,067	351 31	221 94	47,803	35,686	. ..	48,051	20	2,338	40	..		2,398	50,449	2·58	37·02	1·60	32·20 47 37	
		Gobri	372 82	61 29	57·83	1,717	669	.... .	1,029	...	22	... ..	..	.	22	1,051	2·13	46 55	0 60	8·04	
		Gobri extension canal.	648·00	86·23	73 30	2,345	... ..	.. .	... .	.	. .	...	...	.		.. ...	.... .	...	..	. .	
		Pattamundi	885	135 03	46 75	9 201	8,082		6,515	.. .	8		.	.	9	6 523	0·86	35 45	.. .	34·90	
		High Level, Range I.	608	301	1·2	18 445	14,623		14,861	.	3	.			3	14,864			.. ..		
		High Level, Range II	727·16	59 36	9 20	2,411	1,312	..	1,814	12	29		.	.	41	1,855	... .		.	.. ..	
	Balasore	High Level, Range III	727 16	153 86	153 09	20,808	9,547	..	19,295	92	..	115		..	207	19,505	1·71	51 12	0 16	49·72	
		Total				139,711	95,556	. ....	128,421	124	2,627	169		...	2,920	131,341	.		...	. ..	
	Total of the corresponding period of last year.			.	..		.	..	99,611	45	555	171			771	100,382		. .	. ..		
South-Western.	Midnapore	Midnapore	1,411	250	219	49,759	57,909		48,900	...		.. .	..	.		48,900	0 08	61 58	0·12	52 33	Whole month discharging.
		Panchkoorah	522	27	12	4,619	3,578	. .	5,607	44	1,136	.	.	.	1,180	6,787	0·26	55·42	0·00	53·27	Ten days discharging.
	Howrah	Tidal Reaches Ranges I and II			..	359	207	..	502	.	..		...	... ..	..	502	. .	.....	......	....	
		Total ..	.			54,777	61,694		55,009	44	1,136				1,180	56,189	.	.			
	Total of the corresponding period of last year		..	.....			.	.	62 721	1,157					1,157	63,878	.. ..		.. .	... ..	
Sone	Shahabad	Western Main	4,342	2,[illegible]10	102	[illegible]0,727	26,522	13,988	...	2,126	6,070	93	31	201	8,521	22,509	0 01	39·73	.	33·06	
		Buxar	1,226	773	454	77,153	76,752	42,506	.	17,419	13,087	1,321	171	1,971	53,959	76,445	0·[illegible]8	37 07	. ..	38 70	
		Arrah	2,000	1,509	892	147,443	127,374	99,384		28,368	12,559	1,492	27	6,892	49,328	148,712					
	Patna and Gya.	Eastern Main	1,466	767	382	1,647	1,473	866		179	57	10	.	..	546	1,412	0·68	41 83		45 54	
		Patna ..				57,954	55,551	34,813	..	17,934	3,308	207	101		21,550	56,363					
		Total .	..	.		304,904	287,971	191 557		66 316	35,081	3,123	330	9,054	113,904	305,461					
	Total of the corresponding period of last year.		...	...		.	. ..	195,853	..	46,009	3,829	3 885	190	9,313	63,235	259,058	.	.		.. .	
		Grand Total				4[illegible]0 392	445,221	191,557	183,430	66,484	38,844	3,292	330	9,054	118,004	492,991	.		.	.	
	Grand Total of the corresponding period of last year			.	.		.	197,853	162,332	47,211	4 784	4,058	199	9,313	65,163	423,348	.....	.	...	. ..	

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

The 15th January 1889.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of December 1888.

Date	River Ganges — Mirzapore		Benares		Buxar		Dinapore		Monghyr		Sahebgunge		Rampore Beauleah		Goalundo	
Distance (Miles)	86 From Allahabad		134 From Allahabad; 48 From Mirzapore		90 From Benares		177 From Benares; 87 From Buxar		287 From Benares; 110 From Dinapore		381 From Benares; 94 From Monghyr		471 From Benares; 90 From Sahebgunge		591 From Benares; 120 From Rampore Beauleah	
	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
1st ...	4.75	210.97	2.92	199.72	5.25	174.30	10.40	144.63	2.08	103.93	3.25	71.25	3.06	45.06	4.42	13.36
2nd ...	4.67	210.89	2.92	199.72	5.17	174.22	10.40	144.63	2.00	103.85	3.17	71.17	2.96	44.96	4.33	13.27
3rd ...	4.67	210.89	2.92	199.72	5.08	174.13	10.30	144.53	1.87	103.72	3.08	71.08	2.85	44.85	4.33	13.27
4th ...	4.50	210.72	2.92	199.72	5.00	174.05	10.30	144.53	1.79	103.64	3.00	71.00	2.77	44.77	4.25	13.19
5th ...	4.50	210.72	2.87	199.67	4.92	173.97	10.20	144.43	1.67	103.52	2.92	70.92	2.67	44.67	4.25	13.19
6th ...	4.50	210.72	2.87	199.67	4.83	173.88	10.15	144.38	1.58	103.43	2.83	70.83	2.58	44.58	4.25	13.19
7th ...	4.42	210.64	2.85	199.65	4.83	173.88	10.10	144.33	1.54	103.39	2.75	70.75	2.50	44.50	4.25	13.19
8th ...	4.33	210.55	2.83	199.63	4.75	173.80	10.05	144.28	1.46	103.31	2.67	70.67	2.46	44.46	4.08	13.02
9th ...	4.25	210.47	2.81	199.61	4.67	173.72	9.85	144.08	1.42	103.27	2.58	70.58	2.37	44.37	3.92	12.84
10th ...	4.17	210.39	2.79	199.59	4.58	173.63	9.80	144.03	1.33	103.18	2.50	70.50	2.29	44.29	3.75	12.69
11th ...	4.08	210.30	2.75	199.55	4.58	173.63	9.75	143.98	1.33	103.18	2.42	70.42	2.25	44.25	3.50	12.44
12th ...	4.08	210.30	2.75	199.55	4.50	173.55	9.70	143.93	1.25	103.10	2.33	70.33	2.19	44.19	3.25	12.19
13th ...	4.00	210.22	2.73	199.53	4.50	173.55	9.65	143.88	1.17	103.02	2.17	70.17	2.12	44.12	3.08	12.02
14th ...	4.00	210.22	2.67	199.47	4.42	173.47	9.60	143.83	1.00	102.85	2.08	70.08	2.06	44.06	3.00	11.94
15th ...	3.83	210.05	2.62	199.42	4.33	173.38	9.55	143.78	0.83	102.68	2.00	70.00	2.00	44.00	3.00	11.94
16th ...	3.75	209.97	2.50	199.30	4.33	173.38	9.40	143.63	0.75	102.60	1.92	69.92	1.92	43.92	2.92	11.86
17th ...	3.75	209.97	2.42	199.22	4.25	173.30	9.35	143.58	0.62	102.47	1.83	69.83	1.83	43.83	2.92	11.86
18th ...	3.67	209.89	2.37	199.17	4.25	173.30	9.30	143.53	0.54	102.39	1.83	69.83	1.75	43.75	2.92	11.86
19th ...	3.50	209.72	2.33	199.13	4.17	173.22	9.25	143.48	0.50	102.35	1.75	69.75	1.69	43.69	2.83	11.77
20th ...	3.42	209.64	2.29	199.09	4.17	173.22	9.20	143.43	0.42	102.27	1.67	69.67	1.62	43.62	2.83	11.77
21st ...	3.33	209.55	2.25	199.05	4.08	173.13	9.20	143.43	0.33	102.18	1.58	69.58	1.54	43.54	2.75	11.69
22nd ...	3.17	209.39	2.21	199.01	4.08	173.13	9.15	143.38	0.25	102.10	1.50	69.50	1.48	43.48	2.75	11.69
23rd ...	3.08	209.30	2.12	198.92	4.00	173.05	9.10	143.33	0.17	102.02	1.42	69.42	1.44	43.44	2.75	11.69
24th ...	3.08	209.30	2.00	198.80	3.92	172.97	9.10	143.33	0.12	101.97	1.33	69.33	1.37	43.37	2.75	11.69
25th ...	3.08	209.30	1.96	198.76	3.92	172.97	9.00	143.23	0.08	101.93	1.25	69.25	1.23	43.23	2.67	11.61
26th ...	3.08	209.30	1.92	198.72	3.83	172.88	9.00	143.23	0.04	101.89	1.17	69.17	1.12	43.12	2.58	11.52
27th ...	3.00	209.22	1.83	198.63	3.75	172.80	8.90	143.13	below zero 0.04	101.81	1.08	69.08	1.08	43.08	2.50	11.44
28th ...	3.00	209.22	1.75	198.55	3.67	172.72	8.85	143.08	0.12	101.73	1.00	69.00	1.04	43.04	2.33	11.27
29th ...	3.00	209.22	1.67	198.47	3.58	172.63	8.85	143.08	0.17	101.68	0.92	68.92	1.00	43.00	2.25	11.19
30th ...	3.00	209.22	1.58	198.38	3.58	172.63	8.80	143.03	0.25	101.60	0.83	68.83	0.94	42.94	2.25	11.19
31st ...	2.92	209.14	1.54	198.34	3.50	172.55	8.75	142.98	0.42	101.43	0.75	68.75	0.89	42.89	2.17	11.11

Date	River Bhagiruthee — Berhampore		River Jellinghee — Sarupgunge		River Brahmapootra — Gowhatty	
	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.	Height over zero of gauge.	Height over mean sea-level.
1st ...	4.31	38.97	5.00	9.30	0.10	148.86
2nd ...	4.25	37.99	5.29	9.59	0.00	148.76
3rd ...	4.21	37.95	5.50	9.80	below zero 0.10	148.66
4th ...	4.17	37.91	5.75	10.05	0.10	148.66
5th ...	4.12	37.86	6.08	10.38	0.10	148.66
6th ...	4.04	37.78	5.25	9.55	0.10	148.66
7th ...	4.00	37.74	5.25	9.55	0.20	148.56
8th ...	3.92	37.66	4.83	9.13	0.30	148.46
9th ...	3.83	37.57	4.50	8.80	0.30	148.46
10th ...	3.75	37.49	4.12	8.42	0.35	148.41
11th ...	3.71	37.45	4.00	8.30	0.35	148.41
12th ...	3.67	37.41	3.83	8.13	0.50	148.26
13th ...	3.62	37.36	3.67	7.97	0.90	147.86
14th ...	3.54	37.28	3.83	8.13	1.10	147.66
15th ...	3.50	37.24	3.83	8.13	1.20	147.56
16th ...	3.42	37.16	4.04	8.33	1.30	147.46
17th ...	3.29	37.03	4.08	8.38	1.40	147.36
18th ...	3.25	36.99	4.08	8.38	1.50	147.26
19th ...	3.21	36.95	4.00	8.30	1.60	147.16
20th ...	3.12	36.86	4.12	8.42	1.70	147.06
21st ...	3.08	36.82	3.67	7.97	1.80	146.96
22nd ...	3.04	36.78	4.12	8.42	1.90	146.86
23rd ...	3.00	36.74	4.00	8.30	1.95	146.81
24th ...	2.92	36.66	3.83	8.13	2.00	146.76
25th ...	2.87	36.61	3.50	7.80	2.15	146.61
26th ...	2.83	36.57	3.33	7.63	2.25	146.51
27th ...	2.79	36.53	3.17	7.47	2.30	146.46
28th ...	2.75	36.49	3.17	7.47	2.38	146.38
29th ...	2.71	36.45	3.42	7.73	2.45	146.31
30th ...	2.67	36.41	3.58	7.88	2.47	146.29
31st ...	2.62	36.36	3.92	8.22	2.58	146.18

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

The 15th January 1889.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 12th January, 1889, *as compared with the corresponding week of the previous year*

Nature of Cargo.	Week ending Saturday, the 12th January 1889.			Week ending Saturday, the 14th January 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,745	4,01,690	7,290	2,098	4,09,450	7,247
Jute	199	1,25,225	2,262	153	1,17,900	1,964
Firewood	147	81,425	1,207	137	73,275	1,232
Other articles	1,200	2,22,620	3,398	1,009	2,24,942	3,295
Total ...	3,291	8,30,860	14,147	3,397	8,25,567	13,738

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of October 1888 as compared with the same month of the previous year.

STAPLES.	1888. Up.	1888. Down.	1887. Up.	1887. Down.	TOTAL. 1888.	TOTAL. 1887.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	8,310	2,100	4,554	2,846	10,410	7,400	3,010	...
Cotton, raw	41	98	10	12	139	22	117	...
Cotton, twist and yarn—								
1.—European—								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,822	207	2,479	200	3,029	2,679	350	......
b.—In boxes								
2 —Indian—								
a.—in bales and bundles								
b.—in boxes								
Grains—								
2.—Rice	1,868	6,690	2,289	1,373	8,558	3,662	4,896	
5 —Others	1,610	4,555	783	3,535	6,165	4,318	1,847	... ..
Hides and skins—								
1 —Hides of cattle—								
a —Dressed								
b.—Undressed								
2 —Skins of sheep, &c —	10	860	13	603	870	616	263	..
a —Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a —Screwed	1	9,670	...	5,022	9,671	5,022	4,649	.
b —Unscrewed	58	71,361	10	40,831	71,419	40,841	30,5.8	
2.—Gunny bags and cloth	149	1,724	59	1,543	1,873	1,602	271	
Metals—								
1.—Copper, unwrought								
2 —Brass, unwrought								
3.— Brass and copper, wrought	890	95	1,040	88	985	1,128	... ..	143
4 —Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	410	11	265	5	421	270	151	
3.—Others	155	34	134	13	189	147	42	.
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4 —Niger	17.	1,708	201	437	1,883	638	1,245	..
5 —Castor								
6.—Poppy								
7 —Others								
Provisions—								
2.—Betel-nuts	121	427	57	367	548	424	124	
3.—Others	481	292	286	147	773	433	340	
Railway plant and rolling-stock	2,424	815	1,8?2	8 2	3,239	2,716	523	
Salt	3,289	29	2,420	8	3,318	2,428	890	
Sugar—								
1.—Drained	663	318	458	249	981	707	274	. .
2.—Undrained								
Tea—								
1.—Foreign	18	1,748	. ..	1,789	1,766	1,789	..	23
2.—Indian								
Wood—								
1.—Timber	141	128	129	143	269	272		3
2 —Firewood	1,814		1,339	18	1,814	1,357	457	
Tobacco	66	1,249	77	866	1,315	943	372	
All other articles of merchandise—								
1.—Unmanufactured	2,498	1,465	1,776	1,497	3,963	3,273	690	.
2 —Manufactured								
Hay, straw and wooloo (C. & S.-E. Sections)	606	.	318	.	606	318	288	.
Total	28,620	1,05,593	20,541	62,464	134,213	83,005	51,377	169

Comparative Statement of the principal commodities carried over the Eastern Bengal State Railway during the month of October 1888.

INCREASES.

	Tons
Coal	3,010
For Railway and Steamer purposes. Includes coal for Kidderpore docks.	
Cotton piece-goods	350
Poojah traffic.	
Grains (Rice)	4,896
From Kumar Khali and Goalundo principally, also from the Northern Section The Southern Section shews a falling off.	
Jute	35,227
A good outturn and advance in rates.	
Oil-seeds	1,245
Continued improvement in the London market.	
Railway plant, &c	523
For repairs and renewals.	
Salt	890
Increased despatches from Chitpore to Dacca and other hide-curing stations up country.	
Firewood	457
The Southern Section contributed this increase.	
Tobacco	372
From the Northern Section notwithstanding very serious decreases from Rungpore and Kaunia.	

DECREASES.

The decreases during the month are very insignificant, aggregating only 169 tons.

Calcutta, the 15th January 1889. F. P. QUINLAN, *Examiner of Accounts.*

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of October 1888, *as compared with the same month of the previous year.*

STAPLES.	1888.		1887.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1887.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	968	......	351	......	968	351	617	......
Cotton, raw	2	......	1	2	2	3	....	1
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	270	......	131	......	270	131	139	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	6	314	6	204	320	210	110	......
5.—Others	59	139	97	65	198	162	36	......
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	28	......	33	28	33	......	5
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a. Screwed	......	26	... ..	......	26	... ..	26	... .
b.—Unscrewed	......	12,021	16	4,248	12,021	4,264	7,757	... ..
2.—Gunny bags and cloth	3	......	1	7	3	8	......	5
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	54	24	[illegible]	10	78	54	24	......
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	96	... .	48	......	96	48	48	
3.—Others	51	......	38	......	51	38	13	
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	91	97	55	28	188	83	105	.....
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	8	380	5	336	389	341	48	...
3.—Others	40	24	32	31	64	63	1	....
Railway plant and rolling-stock	94	57	6	39	151	45	106	
Salt	228	...	126	......	228	126	102	.. ..
Sugar—								
1.—Drained	16	295	30	236	311	266	45	......
2.—Undrained								
Wood—								
1.—Timber	24	25	26	17	49	43	6	. .
2.—Firewood								
Tobacco	28	22	21	42	50	63	......	13
All other articles of merchandise—								
1.—Unmanufactured	300	298	489	118	598	607	... .	9
2.—Manufactured								
Total ...	2,333	13,756	1,523	5,416	16,089	6,939	9,183	33

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of October 1888.

INCREASES.

	Tons.
Coal ...	617
For railway and Bengal Central Flotilla principally.	
Cotton piece-goods ...	139
Poojah traffic.	
Rice ...	110
Increase due to a favourable market in Calcutta.	
Jute ...	7,757
Every jute-despatching station on the Bengal Central Railway shows a substantial increase in despatches, notably K. L. with 1,29,313 maunds and Singhia with 17,709 maunds. It is said that insurances are being effected by a company in Calcutta on country-boat traffic.	
Oilseeds ...	105
Improvement in the London market.	
Railway plant, &c. ...	106
Due to transfer of Engineering workshop from Khulna to Bongong.	
Salt ...	102
Increased despatches from Chitpore succeeding the recent depression.	

DECREASES.

The decreases during the month were insignificant, aggregating only 63 tons.

CALCUTTA, *the 5th January* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for the last 9 days of December 1888, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	163,410	84,830 0 0	7,02,258 0	1,95,080 0 0	28,760 0 0	3,08,670 0 0	30,272	37,496	67,768
Or per mile of railway	243	126 0 0	1,043 0	290 0 0	†12 0 0	428 0 0	......	......	......
For previous 25 weeks of half-year	*3,357,917	15,31,260 0 0	1,60,52,674 0	39,57,102 0 0	4,23,322 0 0	59,11,684 0 0	575,401	708,342	1,283,743
Total for 26 weeks ...	3,521,327	16,16,090 0 0	1,67,54,932 0	41,52,182 0 0	4,52,082 0 0	62,20,354 0 0	605,673	745,838	1,351,511
Comparison.									
Total for corresponding week of previous year	113,131	60,899 0 0	(a) 8,31,648 0	1,58,181 0 0	26,114 0 0	2,51,294 0 0	21,872	24,694	46,566
Per mile of railway corresponding period of previous year .	175	104 0 0	1,289 0	245 0 0	†11 0 0	390 0 0	......	......	......
Total to corresponding date of previous year	3,192,988	14,90,381 0 0	1,58,59,733 0	35,89,213 0 0	4,23,108 0 0	55,02,703 0 0	508,703	683,202	1,191,905

* Audited up to week ending 17th November 1888.
† Excluding steamer earnings.
(a) Includes ballast train.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 31st December 1887.			Receipts for last 9 days of December 1888.			Total receipts from 1st April 1887 to 31st December 1887.			Total receipts from 1st April 1888 to 31st December 1888.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs	Rs.	Rs.	Rs.
645	2,51,294	390	673	3,08,670	459	645	73,49,706	293	673	*81,65,826	311	8,16,120	......

* Audited up to week ending 17th November 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for last 9 days of December 1888, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,360	11,300 0 0	60,360 0	3,490 0 0	460 0 0	15,250 0 0	4,902	2,390	7,292
Or per mile of railway	219	90 0 0	483 0	28 0 0	4 0 0	122 0 0	......	......	......
For previous 25 weeks of half-year	*656,618	2,21,085 0 0	*14,34,805 0	1,41,393 0 0	2,097 0 0	*3,64,575 0 0	92,823	48,982	141,805
Total for 26 weeks ...	683,978	2,32,385 0 0	14,95,165 0	1,44,883 0 0	2,557 0 0	3,79,825 0 0	97,725	51,372	149,097
Comparison.									
Total for corresponding week of previous year	21,175	10,057 0 0	50,080 0	3,316 0 0	794 0 0	14,167 0 0	3,621	1,589	5,210
Per mile of railway corresponding period of previous year ...	169	80 0 0	401 0	27 0 0	6 0 0	113 0 0	......	......	......
Total to corresponding date of previous year	648,753	2,17,532 0 0	11,51,950 0	1,08,508 0 0	3,563 0 0	3,29,598 0 0	80,327	53,823	140,150

* Audited up to week ending 17th November 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 31st December 1887.			Receipts for last 9 days of December 1888.			Total receipts from 1st April 1887 to 31st December 1887.			Total receipts from 1st April 1888 to 31st December 1888.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,167	113	125	15,250	122	125	5,05,584	104	125	*5,41,026	111	36,042	......

* Audited up to week ending 17th November 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for last 9 days of December 1888. *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,350	*6,280 0 0	19,650 0	2,190 0 0	480 0 0	8,950 0 0	3,309	681	3,990
Or per mile of railway ...	213	73 0 0	228 0	25 0 0	5 0 0	104 0 0	.....	.....	.....
For previous 25 weeks of half-year ...	*350,453	1,14,759 0 0	4,15,285 0	31,052 0 0	5,481 0 0	*1,51,292 0 0	*64,699	14,268	78,967
Total for 26 weeks ..	368,803	1,21,039 0 0	4,34,935 0	33,242 0 0	5,961 0 0	1,60,242 0 0	68,008	14,949	82,957
Comparison									
Total for corresponding week of previous year ...	15,675	5,481 0 0	31,781 0	3,046 0 0	153 0 0	8,680 0 0	2,724	380	3,104
Per mile of railway corresponding period of previous year .	182	64 0 0	369 0	35 0 0	2 0 0	101 0 0		......	......
Total to corresponding date of previous year ...	319,315	1,05,778 0 0	5,42,065 0	50,305 0 0	4,096 0 0	1,60,179 0 0	69,880	9,930	79,810

* Audited up to week ending 17th November 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 31st December 1887.			Receipts for last 9 days of December 1888.			Total receipts from 1st April 1887 to 31st December 1887			Total receipts from 1st April 1888 to 31st December 1888			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	8,680	101	86	8,950	104	86	2,25,938	67	86	*2,25,107	67		831

* Audited up to week ending 17th November 1888.

ASSAM-BEHAR STATE RAILWAY

(Purneah Section.)

Approximate Return of Traffic for last 9 days of December 1888, *on* 38 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,810	1,500 0 0	35,520 0	2,890 0 0	60 0 0	4,450 0 0	684	684	1,368
Or per mile of railway .	74	39 0 0	935 0	76 0 0	2 0 0	117 0 0	......	....	......
For previous 25 weeks of half-year ..	*85,059	26,014 0 0	7,72,230 0	60,813 0 0	1,423 0 0	*88,250 0 0	13,416	13,416	26,832
Total for 26 weeks ...	87,869	27,514 0 0	8,07,750 0	63,703 0 0	1,483 0 0	92,700 0 0	14,100	14,100	28,200
Comparison.									
Total for corresponding week of previous year	1,916	752 0 0	17,093 0	1,361 0 0	16 0 0	2,129 0 0	546	546	1,092
Per mile of railway corresponding period of previous year ..	49	19 0 0	438 0	35 0 0	1 0 0	55 0 0	.		....
Total to corresponding date of previous year ...	74,390	26,380 0 0	2,39,400 0	19,582 0 0	988 0 0	46,956 0 0	14,728	14,352	29,080

Audited up to week ending 17th November 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 31st December 1887.			Receipts for last 9 days of December 1888.			Total receipts from 1st April 1887 to 31st December 1887.			Total receipts from 1st April 1888 to 31st December 1888.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
*39	2,129	55	38	4,450	117	39	87,033	57	38	*1,31,787	9	44,75	......

* Audited up to week ending 17th November 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of December 1888, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 9 days	3,466	1,273 0 0	18,116 0	1,053 0 0	15 0 0	2,341 0 0	655	326	981
Or per mile of railway	127	47 0 0	665 0	38 0 0	1 0 0	86 0 0	.....	......	......
For previous 25 weeks of half-year	75,588	27,024 0 0	2,89,462 0	17,088 0 0	2,018 0 0	46,130 0 0	12,725	9,852	22,577
Total for the half-year ...	79,054	28,297 0 0	3,07,578 0	18,141 0 0	2,033 0 0	48,471 0 0	13,380	10,178	23,558
Comparison.									
Total for corresponding week of previous year	2,755	1,015 0 0	15,931 0	544 0 0	10 0 0	1,569 0 0	509	425	934
Per mile of railway corresponding week of previous year ...	101	37 0 0	577 0	20 0 0	......	57 0 0	......	......	......
Total to corresponding date of previous year	79,220	28,017 0 0	2,51,004 0	14,319 0 0	461 0 0	42,797 0 0	12,705	9,097	21,802

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 31st December 1887.			Receipts for the last 9 days of December 1888.			Total receipts from 1st April 1887 to 31st December 1887.			Total receipts from 1st April 1888 to 31st December 1888.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,569	57	27¼	2,341	86	27¼	66,093*	63	27¼	74,809	70	8,806	...

* Includes figures for Supplementary adjustment.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of December 1888, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 9 days on 273 miles open	44,202	16,681 0 0	1,38,004 0	13,419 0 0	3,250 0 0	33,350 0 0	5,879	6,620	12,499
Or per mile of railway	162	61 0 0	506 0	49 0 0	3 0 0	113 0 0	......	..	..
For previous 25 weeks of half-year	958,094	3,25,254 0 0	32,50,530 0	2,85,610 0 0	69,798 0 0	6,80,662 0 0	129,783	127,760	257,543
Total for the half-year ...	1,002,296	3,41,935 0 0	33,88,534 0	2,99,029 0 0	73,048 0 0	7,14,012 0 0	135,662	134,380	270,042
Comparison									
Total for corresponding week of previous year on 259 miles open	33,904	12,779 0 0	1,84,790 0	18,775 0 0	2,951 0 0	34,505 0 0	5,833	6,705	12,538
Per mile of railway corresponding week of previous year ...	131	49 0 0	713 0	73 0 0	1 0 0	133 0 0	......	......	....
Total to corresponding date of previous year	1,046,174	3,87,206 0 0	35,44,347 0	3,37,970 0 0	90,714 0 0	8,15,890 0 0	164,179	133,041	297,220

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 31st December 1887.			Receipts for the last 9 days of December 1888			Total receipts from 1st April 1887 to 31st December 1887.			Total receipts from 1st April 1888 to 31st December 1888.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	34,505	133	273	33,350	122	250·15	12,71,222(a)	130	261·70	12,11,652	119	....	59,570

a Includes figures for supplementary adjustment.

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 16th January 1889.

REGISTERED No. 29.

No. 4 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JANUARY 23, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

WITHDRAWAL OF THE INLAND EMIGRATION ACT FROM THE DISTRICTS OF CHITTAGONG AND THE CHITTAGONG HILL TRACTS.

GENERAL DEPARTMENT INLAND EMIGRATION.

Calcutta, the 8th January 1889.

RESOLUTION.

READ—

The following correspondence on the subject of the proposed withdrawal of the districts of Chittagong and the Chittagong Hill Tracts from the operation of the Inland Emigration Act No. I of 1882:—

Letter from the Commissioner of the Chittagong Division, No. 767GM—IX-5, dated 13th August 1888.

Letter to the Superintendent and Remembrancer of Legal Affairs, No. 95T—G, dated 18th October 1888.

Letter from the Superintendent and Remembrancer of Legal Affairs, dated 31st October 1888.

Letter from the Superintendent and Remembrancer of Legal Affairs, No. 1098, dated 9th November 1888.

Letter to the Government of India, Revenue and Agricultural Department, No. 186, dated 3rd December 1888.

Letter from the Government of India, Revenue and Agricultural Department, No. 234—26-24E., dated 21st December 1888.

The special procedure provided by Act I of 1882 for enforcing labour contracts in certain specified areas is in force, as far as the Lower Provinces are concerned, only in the districts of Chittagong and the Chittagong Hill Tracts. The Commissioner of Chittagong has frequently urged their withdrawal as not required in his division; and in reviewing the departmental report for the year 1885, Sir Rivers Thompson so far accepted this view as to express a hope that the time was approaching when, considering the falling off in the number of labourers enrolled under the Act, it would be possible to adopt the course recommended. As the results of the following year showed a further decline, Sir Steuart Bayley called for a special report on the subject, which the Commissioner has since submitted. In this communication it is stated that such planters as had been consulted are unanimous in considering that the Act is not required, the ordinary law being sufficient to guard the interests both of employers and employed. This is the view of the District Officers also, and the Commissioner gives his own opinion as follows :—

"It is not adapted to a district where labour is as plentiful as it is here, and where there is, now at least, no objection to taking work on a garden. So far as I have seen, the Act here is entirely against the interests of the cooly and of the better class of planters, while it is favourable to the worst class of planters only. Happily this last class is so small that it may be said to be non-existent. I strongly recommend, therefore, that under the provisions of section 4, the Inland Emigration Act be withdrawn entirely from the districts of Chittagong and the Chittagong Hill Tracts."

2. In deciding whether the recommendation thus forcibly expressed by the local officers should be accepted, the Lieutenant-Governor has to give due weight to the consideration that the Government of India has repeatedly indicated for adoption the policy of dispensing with special legislation on the subject of labour contracts wherever it is possible to do so, leaving the matter to the operation of the ordinary law of the country. "Such legislation," the Secretary of State observed in a despatch No. 102, dated 4th November 1886, "should be considered as temporary only, and clearly ought not to be maintained longer than is absolutely necessary for the protection of both the classes concerned." Viewed from this standpoint, it seems clear that the retention of the system in the two districts referred to scarcely admits of defence. In the Hill Tracts the Act cannot be said to be necessary, as it is not now resorted to even in the case of a single labourer. In Chittagong the number of labourers placed under contract according to the provisions of the Act was never large, and has rapidly decreased in recent years: it was 915 in 1884 and had fallen to 433 in 1887, with the prospect of a further decrease in the immediate future. There is nothing in the condition of the tea industry in Chittagong to suggest that it should be placed under an exceptional system, different from that prevailing in the rest of the province, and particularly in the districts of Darjeeling and Julpigoree, which are now the chief seats of the cultivation of the tea plant. Chittagong is more densely populated than other tea districts in Bengal, local labour is more generally used, and the importation of coolies is resorted to only on a very minute scale. The maintenance of the statutory contract system cannot, therefore, be looked upon as really a necessity in that district, and there is even reason to believe that, so far as it has any effect at all, it is rather a hindrance than an aid to the progress of tea cultivation. It certainly has not effected the object which the late Commissioner of Chittagong had in view when recommending its introduction in the year 1877—that of modifying the system of task work in the interest of the labourer.

3. The Inland Emigration Act leaves to the Local Government, with the previous consent of the Government of India, the power of altering from time to time the area within which the law is in force. The Lieutenant-Governor considers that this power should now be exercised, and accordingly issues the appended notification with the approval of the Governor-General in Council. The Superintendent and Remembrancer of Legal Affairs to Government has advised that this measure will not affect existing contracts otherwise than by putting an end to the exceptional procedure by which they are at present enforced, leaving them in operation as ordinary engagements within the cognizance of the civil courts.

ORDER—Ordered that a copy of this Resolution and of the notification be forwarded to the Commissioner of the Chittagong Division, with reference to the correspondence ending with his letter No. $\frac{707G.M.}{IX-5}$, dated 13th August 1888, for information, and for favour of communication to the Inspectors of Labourers and Managers of tea-gardens.

Ordered also, that a copy of the Resolution and of the notification be forwarded to the Superintendent of Emigration, Calcutta, for information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Dated Calcutta, the 8th January 1889.

NOTIFICATION—By the Government of Bengal, General Department.

UNDER section 4 of the Inland Emigration Act I of 1882, the Lieutenant-Governor of Bengal, with the previous sanction of the Governor-General in Council, is pleased to declare that, on and from the 1st April 1889, the labour-districts of Chittagong and the Chittagong Hill Tracts shall cease to be subject to the provisions of the said Act by which they are declared to be labour-districts, and to all the provisions of the Act applicable only to labour-districts.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 19th January 1889.

Division	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.					
		Western Districts.			
BURDWAN DIVN.	1	Burdwan	Jan. 19, '89	Nil	Weather—rather warm for the season. Prospects of sugarcane, potato and *rubbi* crops generally good. Price of rice stationary.
		Raneegunge	...	0·18	
	2	Bankoora	" 19, '89	Nil	Weather—hot for the season. *Rubbi* coming up well. Mustard is being gathered. Prices continue stationary.
	3	Birbhum	" 19, '89	0·32	Weather—rather warm for the season. Prospects of *rubbi* crops good.
	4	Midnapur	" 19, '89	Nil	Weather—unseasonably warm. Rain wanted for *rubbi* crops.
	5	Hugli	" 19, '89	Nil	Weather—hot and cloudless. Crops doing well.
		Howrah	" 21, '89	Nil	Weather—a little cooler than last week. State and prospects of crops fair.
		Central Districts.			
PRESIDENCY DIVN.	6	24-Perghs.	Jan. 22, '89	Nil	Weather—warm and bright; latter part of the week rather cooler. Harvesting of *amun* all but over. Prospects of winter crops not good owing to want of rain. Manufacture of sugar progressing.
	7	Nuddea	" 19, '89	Nil	Weather—hot and close for the time of year. *Rubbi* crops as yet promising, but rain is urgently wanted in most parts of the district.
	8	Khoolna	" 19, '89	Nil	Weather—foggy and hot. *Amun* harvesting is nearly over; outturn expected to be 10 annas. Cold-weather crops fair.
	9	Jessore	" 19, '89	Nil	Weather—unseasonably warm. *Rubbi* crops doing well, but they want rain badly.
	10	Moorshedabad	" 19, '89	0·21	Weather—rather hot for the season. Both *haimanti* rice and *kalai* are still being harvested. *Rubbi* crops are promising.
		Lalbagh	..	0·08	
		Jangipur		0·82	
RAJSHAHYE DIVN.	11	Dinagepur	" 19, '89	0·06	Weather—getting warm. The average outturn of winter rice for the district is estimated at 9 annas. Sugarcane is being cut; outturn expected to be 14 annas. Prospect of *rubbi* fair. Coarse rice selling at 18 seers per rupee.
	12	Rajshahye	" 19, '89	0·38	Weather—warm. Rain has done much good. Price of rice has fallen. It is now 19½ pucka seers per rupee at the Sudder station. In Manda it sells at 18¼ seers per rupee.
		Nattore	...	1·03	
		Nowgong	...	0·41	
	13	Rungpur	" 19, '89	0·22	Weather—seasonable. Harvesting of *amun* completed with an average outturn of 8 annas. *Rubbi* crops coming up well. Prices of food-grains steady.
	14	Bogra	" 19, '89	0·38	Weather—calm and a little warm. Seven slight shocks of earthquake during the week. Reaping and storing of winter paddy continue. Sugarcane and *rubbi* crops growing well. Price of rice increasing slightly.
		Sherpore	..	0·61	
		Nowkhila		0·15	
	15	Pubna	" 19, '89	Nil	Weather—rather hot for the season. *Rubbi* crops suffering for want of rain. Sugarcane fair.
		Serajgunge	...	1·70	
	16	Darjeeling	" 19, '89	Nil	Weather—still unusually dry and clear. *Aghani dhan* has almost all been reaped in Silliguri sub-division. Crops generally doing well.
	17	Julpigoree	" 19, '89	Nil	Weather—cool and seasonable. Reaping of *haimanti* rice nearly over; average yield for the district will be about 10 annas. Standing crops doing well. Prices have slightly fallen. Common rice selling at 19 seers a rupee at the Sudder station.
		Eastern Districts.			
DACCA DIVN.	18	Dacca	Jan. 19, '89	Nil	Weather—cold and fine. Transplanting of *boro dhan* nearly completed. Cutting of sugarcane going on. Mustard and *kalai* being gathered. Prospects of winter crops good.
	19	Furreedpur	" 19, '89	Nil	Weather—hot. Prospects of crops continue good, but a little rain now would be beneficial.
	20	Backergunge	" 18, '89	Nil	Weather—hot for the time of the year. Propects of crops fair. Harvesting of *amun* crop is nearly finished; outturn reported to be 12 annas.
	21	Mymensingh	" 18, '89	0·11	Weather—cloudy in the beginning of the week; cool and fine in the latter part. Prospects of crops good.
		Jamalpur	..	0·15	
		Kishoregunge	...	0·65	
		Attia	...	0·72	
		Netrokona	...	Nil	
CHITTAGONG DIVN.	22	Chittagong	" 22, '89	Nil	Weather—seasonable. Prospects of winter crops good. Prices steady.
	23	Noakholly	" 18, '89	Nil	Weather—rather warm for the season. Harvesting of *amun* completed. *Rubbi* crops doing well. A little rain will do good to the crops.
	24	Tipperah	" 17, '89	Nil	Weather—warm for the season. Spring crops generally doing well. The shower in Brahmanberiah will aid them in that sub-division. Price of rice falling.
		Brahmanberiah	...	0·39	
	25	Chittagong Hill Tracts.	" 15, '89	Nil	Weather—very cold in the morning. Mustard, chillies, tobacco and other winter crops progressing. Mustard is in flower. Prospects not good for want of rain.
		Hill Tipperah	" 16, '89	0·42	Weather—rather warm. Sugarcane is being cut. Cotton, *til* and mustard are being gathered. Chillies and tobacco are doing well.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.				
PATNA DIVN.	26	Patna Jan. 19, '89	0·04	Weather—occasionally cloudy. Poppy doing well everywhere. Prospects of *rubbi* favourable. Prices almost stationary.
	27	Gya „ 19, '89	Nil	Weather—hot and cold. Paddy is being harvested and threshed. Prospects of *rubbi* and poppy promising. Prices almost stationary.
	28	Shahabad „ 19, '89	0·01	Weather—cool and bright with occasional clouds. Threshing of paddy and pressing of sugarcane going on. Prospects of *rubbi* and poppy continue favourable, but more rain wanted. Prices stationary.
	29	Durbhunga „ 19, '89 Tajpore ... Madhubani ...	0·02 0·25 0·30	Weather—occasionally cloudy. *Rubbi* prospects generally fair. Poppy and tobacco continue promising. A little injury is reported to have been done to *rahar* crop by hail in Tajpore sub-division. Common rice selling at 14 seers (pucka) per rupee in Durbhunga.
	30	Mozufferpur „ 19, '89 Sitamarhi ...	0·50 0·08	Weather—cold and cloudy. Poppy doing well everywhere. Prospects of *rubbi* favourable in Sudder and Hajipore sub-divisions, and fair in South Sitamarhi, but unfavourable in North Sitamarhi. The rainfall on the 13th instant has been beneficial to *rubbi* crops, but it was not general. Hail did some damage on same date.
	31	Sarun „ 19, '89 Sewan ..	0·10 0·48	Weather—cloudy. Slight rain on 13th, and a few showers this morning (19th). *Rubbi* and poppy much benefited by rain, but slightly damaged by hail in some places in the Sewan sub-division. Prospects, however, continue excellent.
	32	Chumparun „ 19, '89	Nil	Weather—cloudy off and on; unusually warm for this time of year. Prospects of standing *rubbi* and poppy crops fair, but rain is needed. Prices ruling very high as compared with the corresponding period of last year. Pressure in the affected tract increasing, but not acute.
BHAGULPORE DIVN.	33	Monghyr Jan. 19, '89 Begueerai ...	0·14 0·24	Weather—seasonable, cloudy at times. The hail which accompanied the rain on the 13th has done a little injury to the crops in flower; otherwise the rain has been beneficial to the young *rubbi* crops. Prices steady.
	34	Bhagulpur „ 19, '89	0·34	Weather—too warm for the season. The rain, though lighter in the north and south, has done good; but more is wanted for the cereals. It was heaviest in the chief *rubbi* tract. Prospects very fair. Mustard being gathered. Prices pretty steady.
	35	Purneah „ 19, '89	0·15	Weather—cloudy and chilly. *Rubbi* crops doing fairly well.
	36	Maldah „ 19, '89 Chanchal ... Shibgunge ... Gajole ...	0·48 0·13 0·07 0·09	Weather—cool and seasonable. The rain has done good to the *rubbi* crops, and prospects are now favourable.
	37	Sonthal Perghs. „ 19, '89 Jamtara ... Rajmahal ...	0·19 0·30 0·46	Weather—rather hot for the season. *Dhan* harvest is over. The little rain of this week did some good to the *rubbi* crops, which promise well.
ORISSA				
ORISSA DIVN.	38	Cuttack Jan. 18, '89	Nil	Weather—seasonable. Reaping of *sarad* rice in progress. Prices rising. Common rice sells at 18 seers 6 chittacks per rupee in town.
	39	Pooree „ 17, '89	Nil	Weather—seasonable. Threshing of winter rice going on. *Dalua* crop doing well. *Moong* is being sown. Common rice 20 seers 13 chittacks per rupee in the Sudder sub-division, and 19 seers 9 chittacks in the Khoorda sub-division.
	40	Balasore „ 18, '89	Nil	Weather—rather hot for this time of year. *Rubbi* crops being harvested. Prospects favourable. Price of rice ranges from 21 to 32 seers per rupee in the district.
CHOTA NAGPORE.				
South-West Frontier Agency.				
CHOTA NAGPORE DIVN.	41	Hazaribagh Jan. 18, '89	0·24	Weather—warm for the season Very slight rain on the 13th. It has not improved prospects of *rubbi* materially. Poppy doing well except in Bogodur, where it is suffering for want of proper irrigation Prices show a slight tendency to rise in the towns of Hazaribagh and Chutra.
	42	Lohardugga „ 19, '89	0·02	Weather—getting warm. Some slight rain during the week; more urgently wanted for *rubbi* crops. Prices almost steady.
	43	Singbhoom „ 18, '89	Nil	Weather—getting hotter every day. Sky was cloudy for a few days of the week. Paddy nearly harvested; outturn would be about 14 annas. Prospects of *rubbi* crops bad owing to want of rain. Sugarcane seems to be good, and outturn will be about 14 annas and in some places 16 annas. Outturn of *biri* crop will be about 10 to 12 annas, of mustard about 4 annas, and of gram about 6 or 7 annas. Prices same as in last week.
	44	Manbhoom „ 19, '89 Gobindpur ...	0·12 0·12	Weather—for the time being very hot. Sugarcane pressing is going on; outturn varies from 8 to 14 annas. *Rubbi* suffered greatly for want of rain; outturn as follows:—*Surso* (mustard) 7 annas, *surguja* 8 annas, gram 8 annas. Paddy harvest almost over; outturn about 12 annas.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 22nd January 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (Sorghum Vulgare.)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	13 4	12 4	15 0	No sale.			(New) 16 8	13 8	15 0	18 12	18 12	21 0	...	...	...
2	Bankoora	12 4	12 4	13 0	14 8	14 8	18 0	16 4	16 4	19 12	20 8	21 0	20 0	...	...	...
3	Beerbhoom	11 0	11 4	15 0	...	...	...	12 0	12 0	16 8	16 0	16 8	21 0	...	...	...
4	Midnapore	18 5	13 5	15 0	40 0	40 0	...	14 0	13 0	18 0	20 0	17 8	22 0	...	...	...
5	Hooghly	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0	13 0	13 0	17 0	...	...	...
	Howrah	Not available.			...	...	...	12 0	19	13 4	17 12	17 12	18 0	...	...	...
	Central Districts.															
	Calcutta*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	24-Pergunnahs	12 8	12 8	16 0	16 0	16 0	22 8	8 0	8 0	8 0	16 0	16 0	18 0	...	...	...
7	Nuddea	14 0	14 0	17 4	22 14	22 14	32 0	12 5	12 5	14 8	17 10	17 10	17 12	...	...	...
8	Khoolna	...		...		...	...	16 0	14 0	18 0	18 0	18 0	23 0	...	...	...
9	Jessore	11 12	11 0	13 4	...	...	...	13 4	11 0	16 0	17 0	17 0	22 0	...		...
10	Moorshedabad	13 8	13 8	16 8	...		...	13 8	13 4	18 0	18 0	18 0	22 8	...	...	...
11	Dinagepore	12 0	12 0	16 0	12 0	12 0	22 0	16 0	15 8	20 0	19 3	19 9	23 8	...	...	...
12	Rajshahye	16 8	15 12	18 0	26 4	24 0	46 0	15 0	12 0	16 8	16 8	16 8	20 4	...	...	...
13	Rungpore	12 4	14 3	16 0	...	...	...	10 8	12 4	14 4	16 0	16 0	21 0	...	...	...
14	Bogra	9 15	9 12½	15 0	...	...	...	13 8	12 0	15 0	18 12	18 12	26 4	...	...	...
15	Pubna	15 0	17 0	18 0	...	...	...	8 0	8 0	8 0	17 4	17 4	22 4		...	...
16	Darjeeling	10 0	10 0	10 0	10 0	10 0	11 0	5 0	5 0	5 0	12 0	12 0	12 0	...	...	...
17	Julpigoree	10 0	11 0	13 5	16 0	16 0	20 0	8 0	9 8	12 0	19 0	16 0	22 0	...	...	...
	Eastern Districts.															
18	Dacca	15 0	15 0	16 0	20 0	20 0	26 0	16 0	14 0	18 0	18 0	16 0	21 0	...	...	...
19	Furreedpore	8 0	11 0	14 0	18 0	...	40 0	10 0	8 0	16 0	16 0	16 0	18 0	...	...	...
20	Backergunge	...	...	...	...	...	...	13 5	18 5	16 0	15 9	16 13	21 0	...	...	...
21	Mymensingh	8 12	9 0	12 0	...	...	...	12 0	12 0	12 0	21 0	20 0	18 12	...	...	...

* Return not received.

† The firewood entered in the present return is *mango* wood, while that entered in previous returns was *sundri* wood, which is no longer available.

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9 seers 15 chittacks, and Raneegunge 10 seers.

B At Rampore Hât retail price of salt 10½ seers per rupee.

C In sub-divisions retail prices of salt per rupee are :—Ghatal 11 seers, Contai 10 seers, and Tumlook 8 seers.

D At Serampore retail price of salt 10 seers per rupee.

D1 In sub-divisions retail prices of salt per rupee are :—Baraset and Bussirhat 9 seers, Diamond Harbour (Kulpihat) 8 seers, Barrackpore 9½ seers, and Dum-Dum 10 seers.

E In sub-divisions retail prices of salt per rupee are :—Kooshtea, Chooadanga, and Ranaghat 10 seers, and Meherpore 10½ seers.

F In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8½ seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th January 1889.

Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Wholesale Salt. Next preceding return.	Wholesale Salt. Corresponding return of last year.	Average wages per month. Able-bodied agricultural labourer. Present return.	Labourer. Next preceding return.	Labourer. Corresponding return of last year.	Syce or horse-keeper. Present return.	Syce. Next preceding return.	Syce. Corresponding return of last year.	Common mason, carpenter, or blacksmith. Present return.	Mason. Next preceding return.	Mason. Corresponding return of last year.	Districts.
															BENGAL.
															Western Districts.
Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
A 10 7½	10 7	12 13	3 11 3	3 11 0	3 0 0	8 0	8 0	8 0	6 8	6 8	6 8	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
10 0	10 0	12 0	3 14 0	3 14 0	3 3 0	6 0 to 10 0	5 0 to 9 0	5 0 to 9 0	5 0 to 8 0	4 0 to 7 8	4 0 to 7 8	8 0 to 15 0	6 0 to 15 0	7 0 to 15 0	Bankoora.
B 10 0	10 0	12 0	3 13 0	3 13 0	3 0 0	...	...	...	...	...	...	...	...	...	Beerbhoom.
C 10 4	10 4	13 0	3 14 0	3 14 0	3 0 0	6 0	6 0	6 0	5 0	5 0 to 6 0	5 0	7 8 to 12 0	7 8 to 11 4	7 8 to 10 0	Midnapore.
D 9 0	9 0	13 0	4 6 0	4 6 0	2 14 0	...	...	...	...	...	...	...	...	...	Hooghly.
10 8	10 8	12 13	3 9 0	3 10 0	2 14 0	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	7 0	7 0	7 0	12 0 to 25 0	12 0 to 25 0	12 0 to 25 0	Howrah.
															Central Districts.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Calcutta.
D1 10 0	10 4	12 8	3 10 0	3 10 0	3 0 0	9 0 to 10 0	10 0	10 8	6 0	8 0 to 9 0	6 0	15 0 to 22 0	15 0 to 25 0	15 0 to 20 0	24-Pergunnahs.
E 9 2	9 2	11 10½	3 14 0	3 14 0	3 0 0	...	...	...	...	...	...	...	...	...	Nuddea.
F 10 0	10 0	10 8	3 14 0	4 0 0	3 4 0	7 8 to 9 6	7 8 to 9 6	9 0 to 15 0	7 0 to 8 0	7 0 to 8 0	6 0 to 8 0	15 0 to 30 0	15 0 to 30 0	10 0 to 16 0	Khoolna.
G 10 0	10 0	10 12	4 0 0	4 0 0	3 2 0	5 0 to 7 8	5 0 to 7 8	7 8	4 0 to 6 0	4 0 to 6 0	6 0 to 7 0	10 0 to 15 0	10 0 to 15 0	15 0	Jessore.
H 10 8	10 10	11 8	3 12 0	3 12 0	3 8 0	...	...	...	...	...	...	...	...	...	Moorshedabad.
9 8	10 0	12 8	4 0 0	3 14 0	3 2 0	7 8	7 8	7 8	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
I 9 9	9 9	12 0	4 0 0	4 0 0	3 1 4	5 0 to 6 0	5 0 to 6 0	5 0 to 6 0	4 0 to 6 0	5 0 to 6 0	5 0 to 6 0	8 0 to 16 0	8 0 to 14 0	8 0 to 14 0	Rajshahye.
J 10 0	9 6	11 4	.	4 4 0	3 8 0	7 8	7 8	7 8	6 0 to 7 0	6 0 to 7 0	6 0 to 7 0	12 0 to 15 0	8 0 to 20 0	12 0 to 15 0	Rungpore.
9 0	8 4	10 8	4 5 4	4 5 4	3 5 4	7 0 to 7 8	6 0 to 7 8	7 0 to 7 8	5 0 to 7 8	5 0 to 7 0	5 0 to 7 8	12 0 to 22 0	10 0 to 2[illegible] 0	10 0 to 22 0	Bogra.
K 10 0	10 0	12 0	...	...	...	5 0 to 7 0	5 0 to 7 0	6 0 to 7 8	6 0 to 10 0	6 0 to 10 0	6 0 to 10 0	8 0 to 20 0	8 0 to 20 0	12 0 to 20 0	Pubna.
8 0	...	9 0	...	...	4 4 0	6 0	6 0	6 0	7 8 to 9 0	7 0 to 9 0	7 8 to 9 0	12 0 to 22 0	12 0 to 23 0	12 0 to 22 0	Darjeeling.
L 9 0	9 0	12 0	4 4 0	4 4 0	3 4 0	7 8	7 8	6 0	9 0	7 0	7 0	20 0	15 0 to 16 0	12 0 to 16 0	Julpigoree.
															Eastern Districts.
M 9 2	9 2	12 8	4 8 0	4 8 0	3 8 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	8 0 to 15 0	8 0 to 15 0	[illegible] 0 to 8 0	8 0 to 20 0	8 0 to 20 0	8 0 to 20 0	Dacca.
10 0	9 0	12 0	4 0 0	4 2 0	3 1 0	7 8	7 8	7 8	8 0	7 0	7 0	10 0 to 15 0	10 0 to 15 0	12 0 to 15 0	Furreedpore.
N 10 10	10 0	13 0	3 12 0	3 12 0	3 1 0	7 8	7 8	8 0	6 0	6 0	6 0	10 0 to 15 0	12 0 to 15 0	12 0 to 15 0	Backergunge.
O 9 10	9 10	12 0	4 2 0	4 2 0	3 4 0	7 0 to 10 0	7 0 to 10 0	7 0 to 10 0	6 0 to 7 0	6 0 to 7 0	6 0 to 7 0	12 0 to 30 0	12 0 to 30 0	12 0 to 30 0	Mymensingh.

G In sub-divisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura and Bongong 10 seers, and Narail 7½ seers.
H In sub-divisions retail prices of salt per rupee are :—Lalbagh 9 seers Kandi 9½ seers, and Jungipore 10 seers.
I In sub-divisions retail prices of salt per rupee are :—Nattore 9½ seers and Nowgaong 8 seers 11 chittacks.
J In sub-divisions retail prices of salt per rupee are :—Nilphamari 10 seers, Kurigram 9 seers.
K At Serajgunge retail price of salt 10 seers per rupee.
L At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee.
M In sub divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Moonshigunge 8 seers 14 chittacks, and Narainganj 10 seers.
N In sub-divisions retail prices of salt per rupee are :—Patuakhali and Bhola 8 seers and Perozepore 9 seers.
O In sub-divisions retail prices of salt per rupee are :—Kishoregunge and Netrakona 8 seers.

PRICES-CURRENT (retail) of

Number.	DISTRICTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	Present return.	INDIAN-CORN OR MAIZE. (Zea Mays.) Present return.	INDIAN-CORN OR MAIZE. Next preceding return.	INDIAN-CORN OR MAIZE. Corresponding return of last year.	ARHAR OR THUR. CADJAN PEA. (Cajanus indicus.) Present return.	ARHAR OR THUR. Next preceding return.	ARHAR OR THUR. Corresponding return of last year.	FIREWOOD. Present return.	FIREWOOD. Next preceding return.	FIREWOOD. Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. C	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Noakholly ...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Tipperah ...	12 8	12 8	13 8	...	.	...	..	8 0	8 0	8 0	...	...	...
25	Chittagong Hill Tracts.	.		...	...	.	.	...	...	...	...	.	...	...
	Hill Tipperah ..	6 0	6 0	12 0	..	..	...	...	8 0	8 0	16 0	...	...	...
	BEHAR.													
26	Patna ...	16 0	16 4	17 0	20	20 8	20 0	28 0	22 0	22 0	23 0	130 0	130 0	120 0
27	Gya ...	13 8	13 8	13 4	16	...	...	...	18 0	18 0	17 0	200 0	200 0	140 0
28	Shahabad ...	14 8	15 8	13 8	18	...	...	...	13 4	14 0	14 0	160 0	160 0	160 0
29	Durbhunga ...	15 4	12 9½	16 7	17	18 0	18 11	29 10	20 12	20 15½	16 7	200 0	157 0	176 0
30	Mozufferpore ...	12 0	12 0	15 0	18	17 0	17 0	26 4	20 0	20 0	16 0	160 0	160 0	160 0
31	Sarun ...	15 0	15 0	14 8	20	19 4	20 0	25 12	20 8	20 8	16 8	160 0	160 0	160 0
32	Chumparun ...	13 0	13 0	14 0	20	17 8	19 0	28 0	22 0	21 0	14 0	160 0	160 0	160 0
33	Monghyr ...	14 11	15 12	16 12	...	17 13	18 10	27 14	18 10	18 14	16 13	147 0	163 0	126 0
34	Bhagulpore ...	15 2	15 2	15 2	12 1	17 10	18 4	25 4	17 10	17 10	20 3	173 8	189 0	151 8
35	Purneah ...	13 0	14 0	18 0	...	...	...	26 0	16 0	16 0	16 0	200 0	200 0	120 0
36	Maldah ...	13 8	14 0	18 8	...	...	...	...	...	...	...	120 0	120 0	120 0
37	Sonthal Pergns.	11 5	13 0	11 0	...	20 0	19 8	36 0	24 0	23 0	25 0	200 0	200 0	200 0
	ORISSA.													
38	Cuttack ...	11 13	13 2	17 1	...	...	...	...	18 6	17 1	18 6	80 0	80 0	80 0
39	Pooree ...	11 13	11 13	14 7	...	...	...	...	13 2	13 2	17 1	80 0	80 0	70 0
40	Balasore ...	12 0	12 0	15 0	13	...	...	...	...	...	...	160 0	160 0	200 0
	CHOTA NAGPORE. *South-West Frontier Agency.*													
41	Hazaribagh ...	12 0	12 0	11 0	9	18 0	20 0	21 0	14 0	16 0	18 0	320 0	320 0	320 0
42	Lohardugga ...	10 8	11 0	12 0	Not	18 0	18 0	24 0	16 8	large 16 small 18 8	20 0	140 0	140 0	140 0
43	Singbhoom ...	10 0	10 0	16 0	14	...	...	...	15 0	15 0	20 0	200 0	200 0	320 0
44	Manbhoom ...	11 14	11 8	13 0	...	26 0	26 0	34 0	18 0	16 0	20 0	200 0	200 0	200 0

P At Panchgachia in Feuny sub-division retail pr
Q In sub-divisions retail prices of salt per rupee
R In sub-divisions retail prices of salt per rupee
S In Hajipore and Sitamarhi sub-divisions retail

CALCUTTA,
The 22nd January 1889.

Station Bazars of the Districts of Bengal on the 15th January 1889—(concluded).

Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	Average wages per month. Able-bodied agricultural labourer. Present return.	Next preceding return.	Corresponding return of last year.	Syce or Horse-keeper. Present return.	Next preceding return.	Corresponding return of last year.	Common Mason, Carpenter, or Blacksmith. Present return.	Next preceding return.	Corresponding return of last year.	Districts
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	Rs A. P	Rs. A. P	Rs. A. P.	Rs. A.	Rs. A.	Rs. A.	Rs A.	Rs. A	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
...	...	...	.....	.....	.....	8 0	8 0	10 8	8 0	8 0	7 8	9 0 to 11 8	9 0 to 11 4	9 8 to 12 8	Chittagong.
8 0 [P]	8 0	9 0	4 8 0	4 8 0	3 12 0	7 0 to 1[illegible] 0	7 8 to 9 0	7 0 to 10 0	5 0 to 7 0	4 0 to 7 0	5 0 to 7 0	7 0 to 20 0	8 0 to 15 0	7 0 to 20 0	Noakholly.
8 0	8 0	11 8	4 6 0	4 6 0	3 5 0	10 0	7 0 to 10 0	10 0	8 0	7 0 to 8 0	8 0	12 0 to 15 0	8 0 to 15 0	12 0 to 15 0	Tipperah
...	...		.....	....	.....	12 0	9 6	9 6	Not procurable						Chittagong Hill Tracts
8 0	8 0	11 0	4 6 0	4 6 0	3 4 0	8 0	8 0	8 0	6 0	6 0	6 0	15 0	15 0	15 0	Hill Tipperah.
															BEHAR.
10 0	10 0	12 0	3 13 3	3 13 0	3 1 6	4 0 to 5 0	4 0 to 5 0	4 8 to 5 0	4 8 to 5 0	4 8 to 5 0	4 8 to 5 0	6 0 to 8 0	7 8 to 8 0	6 0 to 8 0	Patna.
9 8	9 0	11 0	.....	.....	3 5 0	3 8 to 3 0	2 8 to 3 0	2 8 to 3 0	3 0 to 5 0	3 0 to 5 0	3 3 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 3	Gya.
10 0 [Q]	10 0	12 8	4 0 0	4 0 0	3 3 6	5 0	5 0	5 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	Shahabad.
11 0 [R]	...	13 0	3 10 3	3 4 0	3 0 0	3 12 to 5 0	2 1 to 5 [illegible]	2 8 to 5 0	3 0 to 5 0	3 0 to 5 0	2 8 to 5 0	3 12 to 9 8	3 12 to 9 8	3 8 to 8 8	Durbhunga.
10 0 [S]	10 0	12 0	3 12 0	3 12 0	3 4 0		...	...	..		...	..	.		Mozufferpore
10 0	10 0	12 0	3 14 6	3 14 6	3 3 6	3 12 to 7 8	3 12 to 7 8	3 12 to 7 8	4 0 to 7 0	4 0 to 7 0	4 0 to 7 0	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0	Sarun
9 9 [T]	8 0	11 0	4 0 0	4 0 0	3 5 0	2 13 to 3 12	2 13 to 3 12	3 12	4 0 to 6 0	4 0 to 6 0	4 0	6 1 to 9 6	5 9 to 9 0	7 8	Chumparun.
9 8 [U]	9 8	12 9	4 0 0	4 0 0	2 14 6	5 10	4 0 to 5 0	5 10	3 0 to 4 0	3 0 to 5 0	3 0 to 4 0	6 0 to 8 0	5 0 to 12 0	6 0 to 8 0	Monghyr.
10 1	10 1	12 0		..	3 2 0	3 12 to 5 10	3 12 to 5 10	3 12 to 5 10	3 0 to 5 0	4 0 to 5 0	4 0 to 5 0	6 9 to 11 4	5 10 to 11 4	6 9 to 11 4	Bhagulpore.
9 0	9 0	11 0	4 5 0	4 5 4	3 3 6	4 11 to 5 10	4 11 to 5 10	4 11 to 5 10	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	7 0 to 1[illegible] 0	7 0 to 16 0	7 0 to 1[illegible] 0	Purneah.
9 8	9 0	11 8	4 0 0	4 1 6	3 5 0	7 8	7 0	5 0	5 0	5 0	5 0	8 0 to 10 0	7 0 to 12 0	7 0 to 15 0	Maldah.
9 0	9 0	11 8	4 4 0	4 5 0	3 4 6	...	...	...	...	...	...	...	...	...	Sonthal Pergunnahs.
															ORISSA.
11 0	11 0	14 0	3 12 0	3 12 0	2 12 0	5 10	5 10	5 10	4 0	4 0	4 0	7 8 to 10 0	7 [illegible] to 10 0	7 8 to 10 0	Cuttack.
11 13	11 13	13 2	3 6 0	3 6 0	2 12 0	6 0	6 0	6 0	5 0	5 0	5 0	8 0 to 10 0	8 0 to 10 0	8 0 to 10 0	Pooree.
9 12 [V]	9 12	10 8	3 13 6	3 13 0	3 5 0	4 0 to 5 0	5 10 to 7 8	5 10 to 7 8	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	7 8 to 12 8	7 8 to 10 0	7 8 to 9 6	Balasore.
															CHOTA NAGPORE. *South-West Frontier Agency*
8 0	8 0	10 0	4 8 0	4 4 0	3 10 0	3 12	3 12	3 12	4 0 to 5 0	5 0	3 0 to 4 0	7 8	8 0	7 8	Hazaribagh
8 8	8 6	10 8	4 9 0	4 12 0	3 10 0	3-4-6 to 3-12-0	3-4-6 to 3-12-0	3-4-6 to 3-12-0	3 0 to 4 8	3 8 to 6 0	3 0 to 4 8	6 0 to 12 0	4 11 to 14 1	6 0 to 12 [illegible]	Lohardugga.
7 0	7 0	9 0	5 8 0	5 8 0	4 4 0	3 0	3 0	3 0	5 0	5 0	4 0	12 0 to 15 0	13 0 to 15 0	10 0 to 12 0	Singbhoom.
9 0 [W]	8 8	10 10	4 3 6	4 3 0	3 7 0	...	...	...	..	...	...	...	...	..	Manbhoom.

T At Bettiah retail price of salt 9½ seers per rupee.
U In sub-divisional retail prices of salt per rupee are :—Beguserai 9½ seers and Jamui 9 seers.
V At Bhudruck retail price of salt 8 seers per rupee.
W At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta* ...	...	...	...	...	...	...	...	...	...	...	...	...
2	Serajgunge ...	2 4 0	2 5 0	2 4 0	...	...	...	3 8 0	3 6 0	3 6 0	2 6 0	2 6 0	1 14 0
3	Dacca ...	2 10 0	2 10 0	2 6 0	2 0 0	1 15 0	1 8 0	2 7 0	2 12 0	2 3 0	2 4 0	2 8 0	1 14 0
4	Naraingunge	...	...	...	...	...	...	2 6 0	2 4 0	1 12 0	2 4 0	2 3 0	1 8 0
5	Chittagong*...	...	...	...	...	...	...	...	...	...	...	...	...
6	Patna ...	2 7 0	2 8 0	2 5 6	1 14 6	1 14 0	1 6 6	3 8 0	3 8 0	3 0 0	2 7 0	2 7 0	1 13 0
7	Balasore ...	3 8 0	3 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	1 10 0	1 10 0	1 10 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 0	2 2 6	1 11 0
9	Cuttack ...	3 4 0	3 0 0	2 2 0	...	...	...	3 4 0	3 4 0	3 10 0	2 0 0	2 0 0	1 11 0

* Return not received.

CALCUTTA,
The 22nd January 1889

undermentioned Marts of Bengal on the 15th January 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cajan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Calcutta.
3 4 0	3 5 0	3 0 0	...	...	...	...	...	...	...	...	...	3 10 0	3 13 0	3 2 0	Serajgunge.
3 0 0	3 0 0	2 3 0	...	...	...	2 8 0	2 8 0	2 0 0	0 5 0	0 5 0	0 5 0	4 8 0	4 8 0	3 3 0	Dacca.
3 0 0	3 0 0	2 2 0	...	...	...	3 2 0	3 2 0	2 4 0	0 10 0	0 10 0	0 8 0	3 12 0	3 12 0	3 0 0	Naraingunge.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chittagong.
2 1 0	2 1 0	1 13 0	1 14 6	1 15 0	1 6 6	1 12 0	1 12 0	1 11 6	0 5 0	0 5 3	0 5 0	3 13 8	3 13 0	3 1 6	Patna.
3 2 0	3 2 0	2 4 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 0	3 13 6	3 13 6	3 5 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	2 12 0	Pooree.
2 2 0	(*Kalai*). 2 2 0	2 0 0	...	...	...	2 2 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	2 12 0	Cuttack.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure: Mean barometric height, 8 A.M.	Air pressure: Mean reduced to sea-level.	Air pressure: Variation from mean.	Wind: Prevailing direction.	Wind: Mean wind velocity.	Temperature: Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree*	30·043	30·056	—	Calm	130	85·7	18th Jan	60·8	17th Jan.	80 5?	63·8	72·2?	—	68·9
		Gopalpore	30·021	30·071	—·032	NNW	240	83·2	17th & 18th Jan.	60·9	17th "	80·3	63 4	72 2	+2 6	69·0
		False Point	30·035	30 058	—·023	W	183	85·4	18th "	57·0	16th "	81·8	59·8*	70 8	+1·4	66·1
	Cuttack	Cuttack	29·984	30·069	—·011	Calm	31	90·9	17th "	59·8	12th, 14th & 17th Jan.	90·0	60 7	75·4	+3·5	65·0
	Balasore	Balasore	30·014	30·065	—·050	Calm & westerly.	115·2	89·4	18th "	55·5	12th "	87 5	59·1	73 3	+5·2	64·2
South-West Bengal.	South-West Midnapore; South 24-Pergunnahs	Saugor Island	30·034	30·061	—·034	SSW	209	80·7	15th & 16th Jan.	62 9	16th "	79 6	67 7	73 6	+5 8	69 6
	Midnapore	Midnapore	29·902	30·059	—·045	N	49·8	90·3	13th "	57·2	12th "	88 7	61·3	75·1	+8·[illegible]	67·2
	24-Pergunnahs; Howrah; Hooghly	Calcutta	30 035	30·057	—·047	SSW	58	84·5	18th "	62 3	12th & 18th Jan.	82 6	63 8	73·2	+6·5	67·0
	Burdwan	Burdwan	29 950	30·056	— 049	Calm	22·6	85·5	13th "	50·1	12th "	84 9	60 3	72 6	+7·1	65 1
	Bankoora	Bankoora	29 738	30 054	—	W	54	87 6	13th "	53 8	12th "	85 8	60·8	73 3	—	65·8
	Beerbhoom; West Burdwan	Raneegunge*	29 714	30 037	—·033	Calm	43·6	87·3	13th "	54·2	12th "	84·5	60 2	72 4	+6·0	64·1
	Moorshedabad	Berhampore	29 988	30 058	—·023	Calm	41 1	83·1	13th "	51 2	12th "	80 6	57 9	69·3	+4 3	61·6
	Nuddea	Krishnaghur	30·016	30·085	+·025	Variable	60·3	85 0	15th "	55 1	12th "	83 0	58 8	70 9	+7 1	64 6
	Jessore; Khoolna	Jessore	30 037½	30·072½	—·008½	Calm	44 3	84·2	16th "	56 0	12th "	83 0	60 8	71 9	+6·4	65·8
East Bengal.	Chittagong	Chittagong	29·975	30 070	—·004	Calm	33 6	85·6	16th & 17th Jan	54 2	12th* "	82 9	58 5	70 7	+4 3	62·7
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·061	30·074	+·007	Calm	40·0	82·4	16th & 17th Jan	56 6	12th "	80 8	61 0	70 9	+7 5	66 2
	Noakholly	Noakholly	30·025	30 071	+·023	Calm	9 9*	84·5	17th "	52 5	12th "	81·2	56 8	69 0	+4 2	64·2
	Furreedpore	Furreedpore.	30 029	30 070	— 002	Calm	44	82 3	15th "	53 5	12th "	77 7	58 6	68 2	+4 9	63·6
	Dacca	Dacca	30 038	30·061	— 003	Westerly	57·5	84·7	15th "	58 3	18th "	82 2	60 4	71 3	+5·2	65·5
	Commillah	Commillah*	30·025	30 061	—·012	E	31 0	85 4	15th. "	54 0	12th "	82 5	57 2	69 9	+5 6	62·8
	Mymensingh	Mymensingh	30 012	30·073	—·011	SE	49·3	*62 2	14th "	43 6	12th "	60·1†	56·5†	58 3†	—4 4	60·5
North Bengal.	Bogra	Bogra	29 996	30 063?	+·001½	Calm	28 3	81 3	17th "	50 1	12th "	78 0	55 1	66 5	+2·4	60 3
	Pubna	Serajgunge	30 001	30 050	— 027	North-easterly	41 3	79 5	16th "	51 7	12th "	77 6	56 8	67 2	+4 3	62·3
	Rajshahye	Rampore Beauleah	29 9·1	30 054	— 007	SW	50 0	80·4	13th & 18th Jan	51 7	12th "	78 6	56 3	67 4	+5 0	61·8
	Maldah	Maldah	30 027	30 113	—	NW	43 1	80·0	18th "	45 9*	17th "	78 8*	53 8*†	66 3*	—	63·6
	Dinagepore	Dinagepore	29 919	30 078	—·004	SW	36 4	80 1	18th "	46 3	12th "	78 5	51 5	65 0	+3 2	57·6
	Rungpore	Rungpore	29 934	30·067	— 020	Southerly	48	79 6	17th "	46 8	12th "	77 7	51 9	64 8	+3 4	56 8
	Julpigoree; Cooch Behar	Julpigoree	29 771	30·077	— 013	E	26 1	59 7	16th & 18th Jan	48 9	12th "	57 6	51 8	54 7	—6·8	57·4
	Darjeeling Hill Tracts	Darjeeling*	22·985	—	—·006	SW	227	50·3	15th "	35 1	15th "	48 6	36·5	42 6	+2·6	41·1
North Behar.	Purneah; North Bhagulpore	Purneah	29 932	30·068	·042	Calm	26·7	78 2	14th "	—	—	76 6	—	—	—	54·9
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·873	30·052	—·049	Easterly	62	75 9	18th Jan	52 6	12th Jan.	72 1	55·3	63 7	+1·9	57·0
	Chumparun	Motihari	29·813	30 083	— 003	S	103 6*	79 7	18th "	44 9	12th "	68·3	48 2	58 2	—2·3	58·2
	Sarun	Chupra	29 88½	30 095	+ 002	South-westerly.	8 6†	67·5	18th "	50 5	12th "	61·8	53 4	57·6	—3 7	61·6
South Behar.	Shahabad	Dehree	29·700	30 075	— 019	SSW	34·5	83·3	18th "	54 5	12th "	81 7	57·1	69·4	+7 9	62 6
		Buxar	29 826	30 084	—·021	NW	71·6	83·4	18th "	51·9	12th & 13th Jan	78 7	54 5	66 6	+4 5	58·7
		Arrah	29 863	30·074	·010	Easterly	15 0	81 8	18th "	48 9	12th "	77 5	52 7	65 1	+3 8	56 8
	Gya	Gya	29·693	30 096	—·015	Calm	64 7	82 4	14th & 18th Jan.	52 6	12th "	81 8	57 8	69 8	+6·8	60·5
	Patna	Bankipore	29 884	30 070	—·026	Calm	20·8	80·3	18th "	49 8	12th "	76 2	54 1	65·2	+4·4	59 2
	South Bhagulpore; Monghyr	Bhagulpore	29 904	30·075	—·003	Calm	30	77 3	18th "	50 0	12th "	75 2	54 4	64 8	+2·9	59·8
	Sonthal Pergunnahs	Doomka	29·541	30 071	—0·24	Calm	31 5	84·5	13th "	50·8	12th "	81 1	56 4	68 8	+5·2	61·0
Chota Nagpore.	Hazaribagh	Hazaribagh	28 606	30·084	+ 002	South-westerly.	136·5	82 3	14th "	57·9	18th "	79 9	59 0	69 5	+7·9	64·2
	Lohardugga; Maunbhoom	Ranchee	27 880	30·069	— 010	Westerly	96·1	82·0	12th & 14th Jan.	56·4	13th "	80 8	57·3	69·1	+7·7	65·8
	Singbhoom	Chyebassa	29 289	30 087	+·052	Calm	12·8	88·2	14th "	57·0	12th "	87·0	58·7	72·9	+6 0	65·6

* Means of six days.
† Do. of five "

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past [illegible] stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 18th of January 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
85	0	Nil	Nil	0·07	Nil	0·09	—0·09	44·12	55·45	—11·33	0·0	0·2	Pooree	Pooree	Orissa.
71	0·7	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore		
91	0·6	Nil	—	—	—	—	—	—	—	—	—	—	False Point		
79	2·0	Nil	Nil	0·07	Nil	0·11	—0·11	51·79	51·75	+0·04	0·0	0·2	Cuttack	Cuttack	
90	0	Nil	Nil	0·06	Nil	0·16	—0·16	52·87	53·05	—0·18	0·0	0·1	Balasore	Balasore	
96	1·1	Nil	Nil	0·08	Nil	0·17	—0·17	54·99	62·13	—7·14	0·0	0·2	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
82	0·6	Nil	Nil	0·10	Nil	0·26	—0·26	61·49	51·32	+10·17	0·0	0·3	Midnapore	Midnapore	
95	1·0	Nil	Nil	0·10	Nil	0·25	—0·25	62·19	51·41	+10·78	0·0	0·3	Calcutta	24-Pergunnahs; Howrah; Hooghly	
82	7·7	Nil	Nil	0·05	Nil	0·12	—0·12	55·62	46·43	+9·19	0·0	0·2	Burdwan	Burdwan	
78	2·1	Nil	Nil	0·01	Nil	0·08	—0·08	51·73	51·97	—0·24	0·0	0·1	Bankoora	Bankoora	
75	3·1	0·18	0·27	0·12	0·27	0·22	—0·05	56·76	51·39	+5·37	1·0	0·3	Raneegunge	Beerbhoom; West Burdwan	
96	5·0	0·24	0·30	0·14	0·30	0·24	+0·06	47·12	50·36	—3·24	1·0	0·3	Berhampore	Moorshedabad	
91	3·7	Nil	Nil	0·07	Nil	0·15	—0·15	53·45	48·95	+4·50	0·0	0·2	Krishnaghur	Nuddea	
94	1·6	Nil	Nil	0·10	Nil	0·22	—0·22	43·89	52·96	—9·07	0·0	0·2	Jessore	Jessore; Khoolna	
87	2·0	Nil	Nil	0·11	Nil	0·19	—0·19	125·77	113·30	+12·47	0·0	0·3	Chittagong	Chittagong	East Bengal.
			Nil	0·03	Nil	0·19	—0·19	72·40	81·15	—8·75	0·0	0·1	Demagiri	Chittagong Hill Tracts	
90*	0	Nil		0·06	Nil	0·30	0·30	71·82	76·64	—4·82	0·0	0·2	Barrisal	Backergunge	
88	3·3	Nil	Nil	0·06	Nil	0·43	—0·43	105·76	106·90	—1·14	0·0	0·2	Noakholly	Noakholly	
94	0	Nil	Nil	0·09	Nil	0·19	—0·19	47·23	55·47	—8·24	0·0	0·2	Furreedpore	Furreedpore	
90	2·7	Nil	Nil	0·06	Nil	0·17	—0·17	55·43	59·60	—4·17	0·0	0·2	Dacca	Dacca	
90	1·8	Nil	0·20	0·12	0·20	0·34	—0·14	61·91	69·01	—7·10	0·5	0·2	Commillah	Tipperah	
95	2·3	0·10	0·33	0·10	0·33	0·20	+0·13	66·68	67·14	—0·46	0·8	0·3	Mymensingh	Mymensingh	
91	0	0·31	0·34	0·11	0·34	0·17	+0·17	43·97	57·04	—13·07	1·0	0·3	Bogra	Bogra	North Bengal.
96	2·1	1·70	0·85	0·14	0·85	0·21	+0·04	41·57	53·17	—11·60	0·5	0·3	Serajgunge	Pubna	
91	0·9	0·33	0·70	0·14	0·70	0·32	+0·38	45·70	53·70	—8·00	1·0	0·3	Rampore Beauleah	Rajshahye	
83	3·0	0·48	0·30	0·13	0·30	0·23	+0·07	40·61	53·98	—13·37	1·0	0·3	Maldah	Maldah	
88	1·3	0·08	0·21	0·05	0·21	0·11	+0·10	45·82	57·14	—11·32	1·2	0·2	Dinagepore	Dinagepore	
93	0	0·20	0·18	0·08	0·18	0·17	+0·01	56·04	73·52	—17·48	1·0	0·2	Rungpore	Rungpore	
87	0	Nil	Nil	0·03	Nil	0·05	—0·05	85·99	110·83	—24·84	0·0	0·1	Julpigoree	Julpigoree; Cooch Behar	
67	3·4	Nil	Nil	0·13	Nil	0·23	—0·23	98·08	120·72	—22·64	0·0	0·4	Darjeeling	Darjeeling Hill Tracts	
91	2·3	0·15	0·07	0·09	0·07	0·16	—0·09	47·86	58·33	—10·47	0·6	0·2	Purneah	Purneah; North Bhagulpore	North Behar.
			0·18	0·19	0·18	0·31	—0·13	39·57	43·21	—3·64	0·7	0·3	Mozufferpore	Mozufferpore	
85	1·9	0·02	0·09	0·15	0·09	0·27	—0·18	38·76	44·34	—5·58	0·7	0·3	Durbhunga	Durbhunga	
81	5·4	0·02	Nil	0·21	Nil	0·27	—0·27	40·89	46·40	—5·51	0·0	0·3	Motihari	Chumparun	
80	1·8	0·06	0·19	0·16	0·19	0·23	—0·04	37·62	42·54	—4·92	0·7	0·3	Chupra	Sarun	
77	3·0	Nil											Dehree	Shahabad	South Behar.
79	3·9	0·01	0·03	0·21	0·03	0·33	—0·30	41·94	39·72	+2·22	0·7	0·4	Buxar		
83	1·0	0·01											Arrah		
79	6·0	Nil	0·06	0·18	0·06	0·28	—0·22	49·52	41·26	+8·26	0·5	0·3	Gya	Gya	
84	5·0	0·04	0·08	0·13	0·08	0·25	—0·17	46·79	41·02	+5·77	0·5	0·3	Bankipore	Patna	
80	1·6	0·34	0·22	0·12	0·22	0·10	+0·03	48·50	42·81	+5·69	1·6	0·3	Bhagulpore	South Bhagulpore; Monghyr	
82	0·7	0·10	0·16	0·06	0·16	0·16	0	52·40	50·59	+1·81	0·5	0·2	Doomka	Sonthal Pergunnahs	
66	7·7	0·10	0·23	0·07	0·23	0·28	—0·05	56·34	50·15	+6·19	0·8	0·2	Hazaribagh	Hazaribagh	Chota Nagpore.
72	3·9	0·02	0·10	0·19	0·10	0·42	—0·32	50·34	48·68	+1·66	0·7	0·3	Ranchi	Lohardugga	
			0·12	0·13	0·12	0·22	—0·10	46·17	46·68	—0·21	1·0	0·3	Ranchi	Manbhoom	
71	1·9	Nil	Nil	0·14	Nil	0·26	—0·26	40·44	51·10	—10·66	0·0	0·4	Chyebassa	Singbhoom	

* Mean of six days.

The variations are *negative* when the mean for the week is less than the correspon[illegible] [illegible] mean, and *positive* when greater. Denoting cloud amount rep[illegible]sents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal mean [illegible] years. The means of the distri[illegible] are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional [illegible]

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 18th of January 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 12th January 1889.	Sunday, 13th January.	Monday, 14th January.	Tuesday, 15th January.	Wednesday, 16th January.	Thursday, 17th January.	Friday, 18th January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
	Pooree ..	Pooree ...								Nil	Nil	Nil	0·01	41·07	51·05
		Khurdah ...								Nil	Nil	Nil	0·11	44·38	56·40
		Banpur ...								Nil	Nil	Nil	0 03	36·78	50 38
		False Point ...								Nil	Nil	Nil	0 20	54·24	64·38
		Gop ...								Nil	Nil	Nil	?		?
		Pipli ..								Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore								Nil	Nil	Nil	0·08	56·31	46·77
		Banki ...								Nil	Nil	Nil	0 09	43·72	50·58
		Cuttack ...								Nil	Nil	Nil	0 03	52 68	56·04
		Kendrapara ...								Nil	Nil	Nil	0·14	45·21	53·09
		Jajpore ...								Nil	Nil	Nil	0·19	61·15	53·78
		Dharmsala ...								Nil	Nil	Nil	?	56·98	?
		Saltpore ...								Nil	Nil	Nil	?		?
	Balasore	Chandbali ...								Nil	Nil	Nil	0·12	51·05	51·88
		Bhuddruck ...								Nil	Nil	Nil	0·08	48·51	51·35
		Sorah ...								Nil	Nil	Nil	0 08	49·62	50 86
		Balasore ..								Nil	Nil	Nil	0·13	56·98	57 42
		Jellasore ..								Nil	Nil	Nil	0·32	55·85	52 40
		Baripodah ...								Nil	Nil	Nil	0·22	54·18	53·71
SOUTH-WEST BENGAL.	Midnapore ..	Contai ..								Nil	Nil	Nil	0·14	50·70	61 11
		Saugor Island								Nil	Nil	Nil	0·15	52 09	66 92
		Tumlook ...								Nil	Nil	Nil	0 18	64·80	50·99
		Midnapore ...								Nil	Nil	Nil	0 27	63 04	48 56
		Ghattal ..								Nil	Nil	Nil	0 31	56·63	54 35
		Kukrahaty ..								Nil	Nil	Nil	?	65·28	?
		Hersa .								Nil	Nil	Nil	?	52·11	?
		Bhagwanpore								Nil	Nil	Nil	?	49 91	?
		Garbeta .								Nil	Nil	Nil	?	64·41	?
	24-Pergunnahs	Diamond Harbour								Nil	Nil	Nil	0·23	57·18	58 13
		Canning Town								Nil	Nil	Nil	?	55 55	?
		Alipore Jail .								Nil	Nil	Nil	0 39	61 95	55·26
		Barrackpore...								Nil	Nil	Nil	0 24	61 50	47 99
		Dum-Dum .								Nil	Nil	Nil	0 29	63·74	51·41
		Baraset								Nil	Nil	Nil	0 25	64 63	48 91
		Busseerhat ...								Nil	Nil	Nil	0·24	51 31	54·25
	Howrah ..	Howrah								Nil	Nil	Nil	0·26	65 57	51 79
		Mohesrekha (Ooloobersah.)								Nil	Nil	Nil	0·33	56 78	51 81
	Hooghly ..	Serampore ...								Nil	Nil	Nil	0·20	66 68	49 89
		Hooghly ..								Nil	Nil	Nil	0 13	66 73	47 87
		Jehanabad								Nil	Nil	Nil	0 10	61 02	54 75
	Burdwan ..	Culna .								Nil	Nil	Nil	0·11	60 27	43 89
		Burdwan ...								Nil	Nil	Nil	0 04	46 49	47·55
		Cutwa .								Nil	Nil	Nil	0 20	60 08	47 51
		Raneegunge .			0 18					1	0 18	0 18	0 14	57 18	45 31
		Mankur ...								Nil	Nil	Nil	?	42 19	?
	Bankoora ..	Bankoora ...								Nil	Nil	Nil	0 07	48 55	51·03
		Bishenpore ...								Nil	Nil	Nil	0·07	53 3.	51·24
		Mahara ...								Nil	Nil	Nil	0 06	49 98	51 61
		Khatra ...								Nil	Nil	Nil	0·14	55 02	53 78
		Indas ...								Nil	Nil	Nil	?	41 26	?
		Kotalpore ...								Nil	Nil	Nil	?	46 84	?
		Anda ..								Nil	Nil	Nil	?	37 81	?
		Gangajalghati								Nil	Nil	Nil	?	56 1.	?
		Kotpore ..								Nil	Nil	Nil	?	55 17	?
		Sonamukhi ..								Nil	Nil	Nil	?	46 76	
	Beerbhoom .	Bh. Soory			0 32					1	0 32	0·32	0 23	53 6.	53·48
		Hetampore		0 28						1	0 28	0·28	0·27	47 0	54·05
		Rampore Haut			0·28					1	0·28	0 28	0 27	68 72	51 .5
		Bolpore								Nil	Nil	Nil	?	61 5.	?
		Murarai ...								Nil	Nil	Nil	?	?	?
	Nuddea	Ranaghat								Nil	Nil	Nil	0 14	62·51	46 70
		Kishnaghur ..								Nil	Nil	Nil	0 12	68 35	45 58
		Chooadanga .								Nil	Nil	Nil	0·17	52·23	50 90
		Meherpore ..								Nil	Nil	Nil	0 19	47 00	47 40
		Kooshtea								Nil	Nil	Nil	0·13	36 23	55 16
	Khoolna ..	Satkhira .								Nil	Nil	Nil	0 25	38·24	54·90
		Bagirhat ...								Nil	Nil	Nil	0·31	50 37	61 13
		Khoolna ...								Nil	Nil	Nil	0 31	48 49	54 58
	Jessore	Narail ..								Nil	Nil	Nil	0·22	20 99	45 69
		Jessore ...								Nil	Nil	Nil	0 23	56 51	58 97
		Jhenidah ..								Nil	Nil	Nil	0 19	85 64	63·20
		Magoorah .								Nil	Nil	Nil	0 11	42 90	48 16
		Bongong ..								Nil	Nil	Nil	0 08	49 00	51 51
	Moorshedabad	Kandi ..			0·18					1	0·18	0·18	0·18	51 09	49 89
		Berhampore ..			0 24					1	0 24	0·24	0 30	41 9	51 08
		Lalbagh			0 08					1	0·08	0·08	0·05	46 31	50 09
		Azimgunge .											0 25	?	50 86
		Jungipore			0 82					1	0·82	0 82	0 30	46 30	48 95
		Lalgola			0·25					1	0·25	0 25	0·37	51·00	51·02
		Jiagunge ..			0 20					1	0·20	0 20	?	46 67	?
		Akrigunj ..			0 20					1	0 20	0·20	?	46·51	?
		Patkabari								Nil	Nil	Nil	?	48 70	
EAST BENGAL	Chittagong ..	Cox's Bazar .								Nil	Nil	Nil	0 25	146·44	183·27
		Chittagong ..								Nil	Nil	Nil	0 15	105·08	93·17
		Kutubdia ...								Nil	Nil	Nil	?	116 99	?
		Satkania ...								Nil	Nil	Nil	?	91·41	?
	Chittagong Hill Tracts	Rangamati ...								Nil	Nil	Nil	0·24	74·85	85 34
		Kuma ..								Nil	Nil	Nil	0·14	63·95	77 96
	Backergunge	Patuakhally ..								Nil	Nil	Nil	0·33	85·60	87·20
		Perozepore ..								Nil	Nil	Nil	0·45	61·60	69·71
		Burrisal								Nil	Nil	Nil	0·30	65 ·9	67·25
		Bhola ...								Nil	Nil	Nil	0·21	74·97	81·21

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 18th of January 1889 —contd.

Meteorological Division.	District.	Station.	Saturday, 12th January 1889.	Sunday, 13th January.	Monday, 14th January.	Tuesday, 15th January.	Wednesday, 16th January.	Thursday, 17th January.	Friday, 18th January.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi*								Nil	Nil	Nil	?	40·28	?
		Bauphal								Nil	Nil	Nil	?	98 35	?
	Noakholly	Noakholly								Nil	Nil	Nil	0·31	106·99	107·51
		Fenny								Nil	Nil	Nil	0·54	104 53	106 26
		Harishpore								Nil	Nil	Nil	?	129 82	?
		Ramgunj								Nil	Nil	Nil	?	83·28	?
	Furreedpore	Madaripore								Nil	Nil	Nil	0·29	45·71	55·52
		Furreedpore								Nil	Nil	Nil	0·08	52·01	56 00
		Goalundo								Nil	Nil	Nil	0 19	43 98	53 70
	Dacca	Munshigunge								Nil	Nil	Nil	0 20	61 04	69 82
		Dacca								Nil	Nil	Nil	0 20	52 36	58 23
		Narainganj								Nil	Nil	Nil	0 07	62 60	59 36
		Manickgunge								Nil	Nil	Nil	0·21	45 [illegible]	49 81
		Joydebpore			0 20					1	0·20	0·20	?	59 08	?
	Hill Tipperah	Agartola			0·42					1	0·42	0·42	0·38	53 9[illegible]	61 41
	Tipperah	Comilla								Nil	Nil	Nil	0·34	68 91	7[illegible]·61
		Chandpore								Nil	Nil	Nil	0·22	56 55	77 60
		Brahmunberia			0 39					1	0·39	0 39	0·41	69 16	60 88
		Ramchandrapore.								Nil	Nil	Nil	?	60 16	?
		Nasirnagar			0 25					1	0·25	0 25	?	58 [illegible]9	?
		Daudkandi								Nil	Nil	Nil	?	64 18	?
		Kasba			0 32					1	0·32	0·32	?	56 60	?
		Laksham								Nil	Nil	Nil	?	78 02	?
	Mymensingh	Kishoregunge			0 65					1	0·65	0 65	0 38	83 28	6[illegible]·88
		Atia (*Tangail*)			0 72					1	0·72	0 72	0 20	38 56	55 17
		Mymensingh			0·11					1	0·11	0 11	0 16	6[illegible] 5	73 [illegible]0
		Jamalpore			0 15					1	0·15	0·15	0·20	64 80	64 97
		Netrokona								Nil	Nil	Nil	0 05	77 [illegible]	71 63
		Subornakhali			1 00					1	1 00	1 00	?	61 76	?
		Durgapore								Nil	Nil	Nil	?	107 91	?
		Sherpore town		0·10						1	0·10	0 10	?	?	?
		Dewangunj		0 42						1	0·42	0 42	?	55 14	?
NORTH BENGAL.	Pubna	Pubna								Nil	Nil	Nil	0 19	39·66	53 68
		Serajgunge			1 70					1	1 70	1·70	0 22	45 47	52 [illegible]6
	Bogra	Sherpore			0 61					1	0 61	0·61	0·19	41 84	57 64
		Nowkhilla			0 15					1	0·15	0·15	0 18	49 58	54 55
		Bogra			0 38					1	0 38	0 38	0·19	41 28	60 [illegible]4
		Panchbibi			0 21					1	0 21	0 21	0 11	43 4[illegible]	55 50
	Rajshahye	Beauleah			0 38					1	0·38	0·38	0 26	31 45	52 77
		Nattore			1 05					1	1 05	1 05	0 37	59 96	54 63
		Naogaon			0 41					1	0 41	0 41	?	36 38	?
		Lalpore								Nil	Nil	Nil	?	38 75	?
		Manda			0 52					1	0 52	0 52	?	30 16	?
	Maldah	Maldah			0 48					1	0 48	0 48	0 21	48 14	51 49
		Chanchal			0 13					1	0 13	0 13	0 25	33 06	56 44
		Gajol		0 09						1	0 09	0 09	?	37 08	?
		Sibgunj			0 07					1	0 07	0 07	?	45 73	?
	Dinagepore	Mohadeopore		0 5[illegible]						1	0 53	0 55	0 14	37 99	58 19
		Churamon		0 10	0 08					1	0 18	0 18	0 01	46 1[illegible]	52 [illegible]3
		Raigunge			0 12					1	0 12	0·12	0 15	49 29	58 87
		Dinagepore			0 06					1	0 06	0 06	0 15	58 [illegible]	63 7[illegible]
		Balurghat			0 16					1	0 16	0 16	0 06	3[illegible]	53 16
		Thakoorgaon								Nil	Nil	Nil	?	4[illegible] 98	?
	Rungpore	Bhawanigunge (*Gyabandha*)			0 18					1	0 18	0·18	0·20	45 13	61 47
		Rungpore			0 22					1	0 22	0 22	0 17	51 84	71 24
		Kurigram			0 12					1	0 12	0 12	0 15	73 66	[illegible]3 [illegible]8
		Bagdogra (*Nilphamari*)			0 18					1	0 18	0 18	0 17	5[illegible] 13	[illegible]87
		Ulipore								Nil	Nil	Nil	?	59·40	?
	Julpigoree	Julpigoree								Nil	Nil	Nil	0·11	103 7[illegible]	117 [illegible]
		Alipore Duar								Nil	Nil	Nil	?	79 6[illegible]	?
		Follacotta								Nil	Nil	Nil	?	91 07	?
		Debigunj								Nil	Nil	Nil	?	60 [illegible]	?
	Cooch Behar	Dinhatta								Nil	Nil	Nil	0 04	89 79	92 37
		Cooch Behar								Nil	Nil	Nil	0 [illegible]0	89 20	118 1[illegible]
		Mekligunge								Nil	Nil	Nil	Nil	74 00	107 [illegible]3
		Mathabhanga								Nil	Nil	Nil	0·03	72 5[illegible]	116 [illegible]1
	Darjeeling Hill	Buxa								Nil	Nil	Nil	0·51	155 [illegible]6	192 18
		Siliguri								Nil	Nil	Nil	0 01	81 57	103 03
		Darjeeling								Nil	Nil	Nil	0 30	87 [illegible]7	108 10
		Kalimpong								Nil	Nil	Nil	0 07	68 22	8[illegible] [illegible]3
NORTH BEHAR	Purneah	Kissengunge								Nil	Nil	Nil	0 16	47 38	70 04
		Arrareah								Nil	Nil	Nil	0 17	50 92	63 47
		Purneah			0 15					1	0 15	0 15	0 11	44 04	61 07
		Gondwara		0 18						1	0 18	0 18	?		?
		Bahadurpore				0 13				1	0 13	0 13	?		?
		Manihari								Nil	Nil	Nil	?		?
		Kadwagunj								Nil	Nil	Nil	?	57 63	?
	North Bhagulpore	Madhipoora			0 16					1	0 16	0 16	0·20	55 [illegible]7	49 43
		Soupaul		0 04						1	0 04	0·04	0 13	41 19	48 [illegible]0
		Protabgunj								Nil	Nil	Nil	?	57 78	?
	Durbhunga	Tajpore		0 25						1	0 25	0 25	0 36	40 35	42 93
		Durbhunga		0 62						1	0 62	0·62	0·16	[illegible] 2[illegible]	45 [illegible]2
		Madhubani								Nil	Nil	Nil	0 23	[illegible]9 7[illegible]	44 [illegible]
		Baheera		0 06						1	0 06	0 06	?	51 [illegible]6	?
		Roshera		0 36						1	0 36	0 36	?	43 22	?
	Mozufferpore	Sitamarhi			0·03					1	0 03	0·03	0·28	31 74	42 9[illegible]
		Mozufferpore		0·50						1	0 50	0 50	0 37	41 45	[illegible]
		Hajipore								Nil	Nil	Nil	0·28	4[illegible] [illegible]0	41 [illegible]
		Para		0·35						1	0 35	0 35	?	5[illegible] 07	?
		Mahua								Nil	Nil	Nil	?	36 0[illegible]	?
		Runnur								Nil	Nil	Nil	?	[illegible]8 27	?
		Pupri								Nil	Nil	Nil	?	[illegible]	?
	Chumparun	Motihari								Nil	Nil	Nil	0·28	[illegible]6 14	41 [illegible]3
		Bettiah								Nil	Nil	Nil	0 20	42	[illegible]5 [illegible]3
		Bagaha		0 09						1	0 09	0·09	?	52 [illegible]9	?
		Dhunarwa		0 0[illegible]						1	0 05	0·05	?	[illegible]3 7	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 18th of January 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 12th January 1889.	Sunday, 13th January.	Monday, 14th January.	Tuesday, 15th January.	Wednesday, 16th January.	Thursday, 17th January.	Friday, 18th January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·06	36·00	43·54
		Sewan ...	......	0·48	......	......	......	......	......	1	0·48	0·48	0·37	41·06	43·61
		Chuprah ..	......	0·10	......	......	......	......	......	1	0·10	0·10	0·26	35·79	40·41
SOUTH BEHAR	Shahabad	Buxar .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	40·74	38·25
		Dehree .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	43·48	38·60
		Bhuboosh ..	......	0·10	......	......	......	......	......	1	0·10	0·10	0·39	40·27	41·12
		Sasseram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·25	41·73	40·48
		Arrah .	......	0·05	......	......	......	......	......	1	0·05	0·05	0·33	43·49	39·96
		Mohania ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	33·98	?
	Gya ..	Aurungabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·28	53·32	42·56
		Gya ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	51·36	42·31
		Nowadah ...	......	......	0·18	......	......	......	......	1	0·18	0·18	0·25	48·03	39·66
		Jehanabad ..	......	0·05	......	......	......	......	......	1	0·05	0·05	0·37	45·34	40·35
		Arwal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·59	?
		Daudnagar ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·30	?
		Sherrghati ...	......	......	0·10	......	......	......	......	1	0·10	0·10	?	132·94	?
		Rajauli ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	27·93	?
		Pakri Barawan ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·06	?
	Patna ...	Patna	......	0·04	......	......	......	......	......	1	0·04	0·04	0·29	39·66	41·69
		Dinapore .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·26	41·70	41·26
		Behar .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·28	51·95	41·61
		Barrh ..	......	0·28	......	......	......	......	......	1	0·28	0·28	0·16	53·85	39·51
		Bickram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	38·00	
		Hilsa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·81	?
	Monghyr	Begooserai .	......	0·21	0·03	......	......	......	......	2	0·24	0·24	0·22	46·31	39·63
		Monghyr	......	0·12	0·02	......	......	......	......	2	0·14	0·14	0·15	53·75	46·17
		Jamui ...	......	......	0·27	......	......	......	......	1	0·27	0·27	0·24	49·08	42·67
		Gogri ...	......	0·32	......	......	......	......	......	1	0·32	0·32	?	58·91	?
		Sheikpura ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·18	?
	South Bhagulpore	Bhagulpore ..	......	0·21	0·16	......	......	......	......	2	0·37	0·37	0·15	53·37	41·88
		Banka .	......	......	0·10	......	......	......	......	1	0·10	0·10	0·22	39·98	44·44
		Kolgong .	......	0·01	0·18	......	......	......	......	2	0·19	0·19	?	50·57	?
	Sonthal Pergunnahs	Rajmehal ...	......	......	0·46	......	......	......	......	1	0·46	0·46	0·03	46·02	51·89
		Godda .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	47·64	44·93
		Pakour	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	61·53	55·08
		Nya Doomka	......	......	0·19	......	......	......	......	1	0·19	0·19	0·36	51·46	53·04
		Deoghur	......	......	......	......	......	......	......	......	Nil	Nil	0·22	51·89	49·93
		Jamtara .	......	......	0·30	......	......	......	......	1	0·30	0·30	0·16	55·81	47·99
		Mohagama .	......	......	0·06	......	......	......	......	1	0·06	0·06	?	?	?
		Nanshai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	28·22	
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	55·42	47·27
		Hazaribagh .	......	......	0·16	......	......	......	......	1	0·16	0·16	0·30	54·68	47·78
		Semtaguran	......	0·47	......	......	......	......	......	1	0·47	0·47	0·19	55·30	45·48
		Mahudi Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	54·31	47·97
		Jhoomrah Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	62·15	62·09
		Barhi ...	......	......	......	0·46	......	......	......	1	0·43	0·43	?	50·09	?
		Chatra ..	......	......	0·10	......	......	......	......	1	0·10	0·10	?	53·95	?
		Karagdeha ...	......	......	0·10	......	......	......	......	1	0·10	0·10	?	51·93	?
		Ramghar ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46·33	?
	Lohardugga .	Lohardugga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·60	46·47	52·11
		Ranchi ...	......	......	0·02	......	......	......	......	1	0·02	0·02	0·27	52·84	51·75
		Palamow	......	......	0·29	......	......	......	......	1	0·29	0·29	0·30	51·74	42·98
		Silli ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Balumat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·42	?
		Hosseinabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Gurwah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46·68	
	Singbhoom ...	Chyebassa	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	40·44	51·25
		Chakradharpore.	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·95	?
		Ghatsilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·39	?
		Baharagura ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·55	?
	Manbhoom .	Purulia ..	......	......	......	0·12	......	......	......	1	0·12	0·12	0·15	56·63	48·69
		Gobindpore ...	......	......	0·12	......	......	......	......	1	0·12	0·12	0·28	36·30	44·88
		Raghunathpore.	......	......	0·09	......	......	......	......	1	0·09	0·09	?	52·89	?
		Barrabhoom ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·64	?
		Jhalda ...													
		Chas ...													

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 22*nd January* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 18TH JANUARY 1889.

At the end of the previous week the barometer was falling at all stations. On the 12th a brisk fall of pressure occurred over the greater part of the province which resulted in the formation of a shallow but distinct low-pressure area over Central and West Bengal and over the greater part of Behar. In consequence of this depression moist southerly winds set in over the north of the Bay and the neighbouring districts, though northerly winds still continued to blow in the centre and south of the Bay. With the reversal of the winds in Bengal temperature increased very rapidly in the southern districts and became abnormally high, while at the same time humidity became very high, and in some cases the air was almost saturated with moisture. On the 13th pressure rose briskly in Bengal and the shallow depression filled up, but still southerly winds continued to blow at most of the stations near the sea coast. At this time also it would appear that the disturbed conditions which had been travelling south-eastwards along the line of the Himalayas existed over the hills to the north of Bengal, and there is little doubt that the southerly moist winds blowing from the head of the Bay went to feed this disturbance, for on the 13th fairly general rain was reported over almost the whole of Behar, and on the 14th the rainfall had extended over considerable parts of North Bengal and Chutia Nagpur and to a few districts in Central and East Bengal. The disturbance, however, rapidly passed away, and on the 15th practically no rain was reported from any station. The rainfall was decidedly heaviest in North Bengal, but falls exceeding an inch were only received at two or three stations. Notwithstanding the filling up of the depression and the disappearance of the disturbance, light and rather variable, but usually southerly winds still continued to blow at the head of the Bay for several days, and temperature in South Bengal continued to increase, while humidity remained very high, and these conditions remained almost unchanged over this district until the close of the week. Northerly winds were, however, commencing to blow from the middle of the week in North Bengal and North Behar, and were slowly driving back the moist southerly winds which prevailed in South Bengal; and thus while at the close of the week conditions over the north of the province were normal for the cold weather, very abnormal conditions as to temperature and humidity prevailed over the whole of South Bengal.

Pressure.—Pressure has been slightly in defect over almost the whole province, a few stations only in East Bengal and Chutia Nagpur reporting slight excess. On the 12th a very abnormal distribution occurred. There was a general fall, in some cases amounting to nearly a tenth of an inch, in South Bengal, and causing there a slight depression, which decidedly influenced the wind directions and weather during the whole of the week. On Sunday, the 13th, the depression began to fill up, though, owing to a slight fall on the following day, the normal distribution was not restored till about the middle of the week. Though pressure has been highest over Orissa, there has been a slight defect there. The largest defect is in South-West Bengal in the neighbourhood of Calcutta, where it amounts to about ·05 inch. The principal changes have thus been the general fall reported on Saturday, 12th, and, with some exceptions, a slight steady rise until the last day of the week, when there was again a general fall.

Temperature.—The main feature in the temperature changes during the week was the extraordinarily rapid rise which took place from the 11th to the 12th at the southern stations, and from the 12th to the 13th further inland. The rise was most rapid in South-West Bengal, where at several stations the minimum temperature increased 10° and upwards in the 24 hours. Temperature also continued generally to increase in all districts except the north of the province, and thus the average temperature for the week for the greater part of the province has been largely in excess. The excess in the mean temperature for the week in South-West Bengal has been nearly 7°, while in Chutia Nagpur it has been nearly 8°. Smaller excess temperatures have been registered in all other districts except North Behar, where a defect of 1·4° is registered.

The general range of temperature during the week and its large variation from that usually obtaining at this season is shown in the table below, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, compared with the normal values for the same period:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 18th of January 1889.

	Normal mean maximum temperature for the week ending 18th January.	Actual mean maximum temperature for the week ending 18th January 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 18th January.	Actual mean minimum temperature for the week ending 18th January 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 18th January.	Actual mean daily temperature for the week ending 18th January 1889.	Variation of actual mean from the normal.
Cuttack	83·5	90·0	+6·5	60·3	60·7	+0·4	71·9	78·4	+6·5
Calcutta	76·9	82·6	+5·7	56·4	63·8	+7·4	66·7	73·2	+6·5
Dacca	77·8	82·2	+4·4	54·4	60·4	+6·0	66·1	71·3	+5·2
Burdwan	77·8	84·9	+7·1	53·2	60·3	+7·1	65·5	72·6	+7·1
Patna	72·3	76·2	+3·9	49·2	54·1	+4·9	60·8	65·2	+4·4
Gya	75·2	81·8	+6·6	50·7	57·8	+7·1	63·0	69·8	+6·8
Purneah	74·6	76·6	+2·0	48·6	—		61·5	—	
Hazaribagh	72·6	79·9	+7·3	50·6	59·0	+8·4	61·6	69·5	+7·9
Darjeeling	44·4	48·6	+4·2	35·8	36·5	+0·9	40·0	42·6	+2

Rainfall.—The average rainfall in North Bengal during the week has equalled nearly three-tenths of an inch, while in East Bengal, Behar, and Chutia Nagpur it has averaged from one to two-tenths. In South-West Bengal the average fall has been smaller than this, while Orissa has been rainless. Taking up the rainfall district by district, the following districts have received an average fall from half to one inch:—Pubna and Rajshahye; the following falls averaging from a quarter to half an inch:—Beerbhoom, Moorshedabad, Mymensing, Bogra and Maldah; and the following falls from a tenth to a quarter of an inch:—Comillah, Dinagepore, Rungpore, Mozufferpore, Sarun, Bhagulpore, Sonthal Pergunnahs, Lohardugga, and Manbhoom.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 18th of January 1889:—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90·9	55·5	84·1	61·4	72·8	+3·2	Nil	0·06	—0·06	0·0	0·2	—0·2	Nil	0·13	50·48	53·22
South-West Bengal ...	90·3	50·1	83·6	61·3	72·5	+6·4	0·06	0·09	—0·03	0·2	0·2	0	0·06	0·20	54·58	51·74
East Bengal	85·6	52·5	78·2	58·4	68·3	+3·9	0·10	0·08	+0·02	0·2	0·2	0	0·10	0·24	70·67	73·99
North Bengal	81·3	45·9	75·3	53·9	64·6	+1·9	0·29	0·08	+0·21	0·8	0·2	+0·6	0·29	0·15	53·48	70·17
North Behar	79·7	44·9	67·4	52·3	59·8	—1·4	0·11	0·15	—0·04	0·6	0·3	+0·3	0·11	0·24	41·72	48·48
South Behar	84·5	48·9	78·9	55·3	67·1	+5·1	0·12	0·14	—0·02	0·7	0·3	+0·4	0·12	0·24	48·31	43·54
Chutia Nagpur	82·3*	56·4*	80·4*	58·2*	69·3*	+7·8*	0·16	0·12	+0·04	0·7	0·4	+0·3	0·16	0·30	50·83	49·21

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 22nd January 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 13th to 19th January 1889.

Month.	Date.	Temperature.				Mean wet bulb.	Hygrometry.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1889.		°	°	°	°	°	Inches.	°	%	Inches.
January ...	13th .	72·9	85·4	20·6	64·8	69·0	·657	66·7	81	Nil.
" ...	14th ...	74·8	84·9	17·9	67·0	68·6	·617	64·9	72	"
" ...	15th ..	74·2	84·9	19·[illegible]	65·9	69·4	·656	66·7	77	"
" ..	16th ..	74·0	84·8	20·4	64·4	68·5	·625	65·3	74	"
" ...	17th ...	74·3	85·1	21·7	63·4	68·6	·624	65·3	73	"
" ...	18th ...	73·7	85·4	22·0	63·4	68·3	·621	65·1	74	"
" ...	19th ...	75·2	87·0	22·1	64·9	68·3	·600	64·1	68	"

	°
The mean temperature of the seven days	74·2
The extreme variation of temperature	23·6
The maximum temperature	87·0
	%
The mean relative humidity	74
	Inches.
The total fall of rain from 13th to 19th January 1889	Nil

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;
The 21st January 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India

Results of the Meteorological Observations taken at the Alipore Observatory from 13th to 19th January 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan.	13th	136·5	7·2	29·953	72·5	83·6	18·5	65·1	68·1	0·631	65·6	80	SW, WSW and SSW	75	Nil	Partially cloudy, ≡, ⌓.
,,	14th	136·6	8·7	·973	73·1	83·5	17·0	66·5	68·1	·624	65·2	78	SSW, WSW and SW by W.	75	,,	Chiefly cloudy.
,,	15th	134·0	8·5	30·006	73·0	82·1	18·0	64·1	68·0	·620	65·1	78	NW by W, ESE and variable.	26	,,	Partially cloudy, o.
,,	16th	137·4	9·1	·029	72·5	82·5	19·0	63·5	67·4	·606	64·4	78	SSE, W by S and variable.	40	,,	Partially cloudy, ≡, ⌓.
,,	17th	136·1	8·8	·034	72·4	84·5	21·9	62·6	67·1	·595	63·8	77	WNW and calm ..	41	,,	Chiefly cloudy, ≡, ⌓.
,,	18th	133·2	8·2	·012	72·0	84·1	21·8	62·3	67·0	·599	64·0	78	W by N, N and calm	34	,,	Chiefly clear, ≡, ⌓.
,,	19th	137·0	9·5	·005	73·6	85·6	23·5	62·1	67·4	·589	63·6	74	SW by S and N	69	,,	Chiefly clear, ≡, ⌓.

	Inches.
The mean pressure of the seven days	30·002
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	30·022
	Hours.
The total number of hours of bright sunshine	60·0
The maximum possible number of hours of sunshine	76·0
	°
The mean temperature of the seven days	72·7
The average temperature of the corresponding period for 24 years, S. G.'s Office	67·4
The extreme variation of temperature	23·5
The maximum temperature	85·6
	Miles.
The highest velocity of the wind in one hour	9
	lbs.
The highest pressure of wind on one square foot	Instrument under repair.
	%
The mean relative humidity	78
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	70
	Inches
The total fall of rain from 13th to 19th January 1889 ...	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·03
The total fall from 1st to 19th January 1889	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, ≡ fog, ⌓ dew.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 21st January 1889.

MEMORANDUM.

From the annexed table exhibiting the vital statistics of the principal municipalities in Bengal for the week ending 5th January 1889, it appears—

1. That during the week in question births and deaths were registered in the proportions, respectively, of 25·4 and 28·9 per 1,000 of population, as opposed to 23·6 and 29·6 per 1,000, respectively, during the preceding week ending 29th December 1888, indicating an improvement in the registration of births.

2. That births and deaths were recorded at the highest rates from the following municipalities:—

Births.

	Ratio per mille.
Utterpara	56·6
Monghyr	41·6
Howrah	37·8
Puri	37·8
Naraingani	37·3
Chupra	36·1
Rampore Beauleah	34·2
Darjiling	32·6
Durbhanga	32·3
Bhagulpore	30·8
Gya	30·1
Ranaghat	29·9

Deaths.

	Ratio per mille.
Suburbs of Calcutta	59·6
Serampore	45·1
Utterpara	37·7
Naraingani	37·3
Puri	35·7
Rampore Beauleah	34·2
Burdwan	33·6
Darjiling	32·6
Howrah	29·2

3. That the only noticeable point, in connection with the incidence of the specific death-causes in comparison with the outcome of the preceding week, is a sensible abatement in the mortality from cholera, *vide* subjoined table:—

	Ratio per mille during the weeks ending— 5th January 1889	29th December 1888.
Cholera	2·7	3·7
Small-pox	·2	·1
Fever	11·3	11·3
Bowel-complaints	5·3	5·0
Injury	·5	·4
Other causes	8·9	9·0

4. That no municipalities suffered much from small-pox, or presented a large number of casualties from injury. The following municipalities returned high death-rates from the other diseases specified in the foregoing table:—

Cholera.

	Ratio per mille.
Naraingani	16·6
Suburbs of Calcutta	7·7
Mozufferpore	4·9
Howrah	4·0

Fever.

	Ratio per mille.
Rampore Beauleah	26·3
Suburbs of Calcutta	22·1

Bowel-complaints.

	Ratio per mille.
Serampore	13·7
Suburbs of Calcutta	13·0

Other causes.

	Ratio per mille.
Puri	25·2
Suburbs of Calcutta	15·7
Midnapore	15·5
Serampore	13·7
Howrah	10·9
Gya	10·9

5. That under the heads of *Sex, Class* and *Age*, the mortality stood as follows:—

According to Sex.

	Ratio per mille.
Males	32·4
Females	25·0
Ratio of male deaths to every 100 female deaths	146

According to Class.

	Ratio per mille.
Christians	30·4
Hindus	29·3
Mahomedans	28·4

According to Age.

	Ratio per mille.
Under 1 year	197·2
1 and under 5 years	30·8
5 " 10 "	9·9
10 " 15 "	9·5
15 " 20 "	15·7
20 " 30 "	18·4
30 " 40 "	21·0
40 " 50 "	24·3
50 " 60 "	39·3
60 years and upwards	93·7

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 21*st January* 1889.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 5th January 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of population per annum.				Deaths from—							Ratio per 1,000 of population per annum.								Deaths.		Ratio per 1,000 of population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,060	6	8	14	9·2	12·2	21·4	75	...	...	11	5	...	6	22	...	...	16·8	7·6	...	9·2	33·6	36·6	11	11	31·7	35·7	100
Midnapore ...	Midnapore	16,927	16,633	33,560	4	2	6	6·2	3·1	9·3	200	...	...	3	5	...	10	18	...	...	4·6	7·7	...	15·5	27·9	32·5	9	9	27·6	28·1	100
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	8	12	20	10·7	16·1	26·9	66	1	..	5	5	1	3	15	1·3	...	6·7	6·7	1·3	4·0	20·1	29·5	5	10	13·6	26·6	50
Serampore	Serampore	13,559	12,937	26,496	8	5	13	15·7	9·8	25·5	160	3	...	4	7	2	7	23	5·9	...	7·9	13·7	3·9	13·7	45·1	41·2	13	10	49·9	40·2	130
	Utterpara	3,046	2,464	5,510	4	2	6	37·7	18·9	56·6	200	1	...	...	2	...	1	4	9·4	...	...	18·9	...	9·4	37·7	56·6	3	1	51·2	21·1	300
Howrah	Howrah	53,153	37,660	90,813	42	24	66	24·0	13·7	37·8	175	7	...	11	10	4	19	51	4·0	...	6·3	5·7	2·3	10·9	29·2	18·3	28	23	27·4	31·8	121
	Bali	7,836	6,979	14,815	...	4	4	..	14·0	14·0	No male birth.	1	...	1	2	..	...	4	3·5	...	3·5	7·0	...	...	14·0	10·5	4	...	26·5	...	No female death.
24-Pergunnahs ...	Suburbs of Calcutta ...	147,205	104,234	251,439	50	63	113	10·3	13·0	23·4	79	37	2	107	63	3	76	288	7·7	·4	22·1	13·0	·6	15·7	59·6	54·8	185	103	65·4	51·4	179
Nuddea	Kishnaghur	13,263	14,214	27,477	5	5	10	9·4	9·4	18·9	100	2	...	6	.	...	5	13	3·8	...	11·4	...	...	9·4	24·6	24·6	9	4	35·3	14·6	225
	Ranaghat	4,028	4,655	8,683	3	2	5	17·9	12·0	29·9	150	...	...	...	1	...	...	1	...	...	...	6·0	..	...	6·0	... ..	...	1	...	11·2	No male death.
	Santipore	13,708	15,979	29,687	5	2	7	8·8	3·5	12·3	250	1	...	6	1	..	3	11	1·7	...	10·5	1·7	...	5·3	19·3	43·8	7	4	26·6	13·0	175
Jessore	Jessore	4,830	3,665	8,495	...	1	1	...	6·1	6·1	No male birth.	1	...	...	...	...	...	1	6·1	...	...	...	.	...	6·1	18·4	1	...	10·8	...	No female death.
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	6	7	13	15·8	18·4	34·2	85	...	...	10	1	...	2	13	..	...	26·3	2·6	...	5·3	34·2	44·7	11	2	53·1	11·5	550
Darjiling	Darjiling*	5,029	2,947	7,976	3	2	5	19·6	13·0	32·6	150	...	...	3	1	...	1	5	...	...	19·6	6·5	...	6·5	32·6	13·0	5	...	51·7	...	No female death.
Dacca	Dacca	42,782	37,379	80,161	20	15	35	13·0	9·7	22·7	133	3	..	9	7	...	12	31	1·9	...	5·8	4·5	...	7·8	20·1	28·5	18	13	21·9	18·1	138
	Naraingunj	7,605	4,956	12,561	6	3	9	24·8	12·4	37·3	200	4	...	2	2	...	1	9	16·6	...	8·3	8·3	...	4·1	37·3	53·8	7	2	47·9	21·0	350
Chittagong	Chittagong	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150	...	...	3	...	...	3	6	...	...	7·0	...	...	7·0	14·1	18·8	5	1	19·5	5·9	500
Tipperah	Comillah	8,153	5,353	13,506	2	2	4	7·7	7·7	15·4	100	...	...	4	1	...	1	6	...	...	15·4	3·8	...	3·8	23·1	15·4	5	1	31·9	9·7	500
Patna	Patna City	78,762	81,475	160,237	42	21	63	13·6	6·8	20·4	200	2	...	25	7	1	12	47	·6	...	8·1	2·3	·3	3·9	15·3	20·8	20	27	13·2	17·2	74
Gya	Gya	38,290	37,831	76,121	27	17	44	18·4	11·6	30·1	158	3	..	22	1	...	16	42	2·0	...	15·0	·7	...	10·9	28·7	32·1	25	17	34·0	23·4	147
Shahabad	Arrah	20,960	22,505	43,465	7	6	13	8·4	7·2	15·6	116	...	...	5	1	1	1	8	...	...	6·0	1·2	1·2	1·2	9·6	18·2	5	3	12·4	6·9	166
Mozufferpore ...	Mozufferpore	23,084	19,658	42,742	7	5	12	8·5	6·1	14·6	140	4	...	1	2	...	8	15	4·9	...	1·2	2·4	...	9·7	18·2	3·7	10	5	22·5	13·2	200
Durbhanga ...	Durbhanga	33,774	32,322	66,096	21	20	41	16·5	15·7	32·3	105	...	...	22	5	..	4	31	...	...	17·3	3·9	..	3·1	24·4	19·7	14	17	21·6	27·3	82
Sarun	Chupra	26,044	27,205	53,249	23	14	37	22·4	13·7	36·1	164	...	2	4	4	1	10	21	...	1·9	3·9	3·9	1·9	9·8	20·5	19·5	13	8	26·0	15·3	162
Bhagulpore ...	Bhagulpore	29,640	27,813	57,453	21	13	34	19·0	11·8	30·8	161	...	...	8	...	..	6	14	...	...	7·2	...	...	5·4	12·7	15·4	7	7	12·3	13·1	100
Monghyr	Monghyr	28,154	29,366	57,520	28	18	46	25·3	16·3	41·6	155	...	...	9	1	...	6	15	–	...	7·2	·9	...	5·4	13·6	15·4	6	9	11·1	15·9	66
Purneah	Purneah	8,463	6,553	15,016	2	...	2	6·9	...	6·9	No female birth.	...	...	4	...	...	1	5	...	..	13·8	...	...	3·5	17·3	13·9	4	1	24·6	7·9	400
Puri ...	Puri	13,247	11,537	24,784	6	12	18	12·6	25·2	37·8	50	...	..	4	1	...	12	17	...	...	8·4	2·1	...	25·2	35·7	44·1	8	9	31·4	40·6	88
	TOTAL ...	702,890	619,691	1,322,581	359	287	646	14·1	11·3	25·4	125	70	4	288	135	13	236	736	2·7	·2	11·3	5·3	·5	8·9	28·9	29·6	438	298	32·4	25·0	146

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS.	NAMES OF MUNICIPALITIES.	13. Mortality according to Class — Deaths among— Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.	14. Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Budhists.	Other classes.
Burdwan	Burdwan	..	17	5	..	.		37 3	25 3	...	...
Midnapore	Midnapore	...	15	3	...	..	..	30 1	21 6	..	...
Hughli	Hughli and Chinsurah ...	..	12	3		.		19 7	22 9	.	..
Serampore	Serampore	.	21	2	.	..	..	43 3	110 9	.	...
	Utterpara	..	4	.	.	...	..	39 1		...	..
Howrah	Howrah	...	33	15	...		..	25·2	45·6	...	...
	Bali	..	3	1	...	...	...	11·6	39 7	.	...
24-Pergunnahs ...	Suburbs of Calcutta ...	5	187	96		..	64 2	64·9	151·7	.	
Nuddea	Kishnaghur	1	4	8	...	..	91·7	11·2	50·2	...	...
	Ranaghat	...	1	.	...	...	.	7·1	...	...	.
	Santipore	...	8	3	...	...	...	20·1	17 4	...	...
Jessore	Jessore	...	1		...	...	...	11·5		..	...
Rajshahye ...	Rampore Beauleah ...	...	6	7	...	...	...	31 5	37 1	.	...
Darjiling	Darjiling	...	5	...		...	...	56·6	...	...	...
Dacca	Dacca	...	19	12	...		...	24·5	15·9	...	...
	Narainganj	.	3	6	.	..	...	24 7	50 6	...	..
Chittagong	Chittagong	1	1	4		..	65·3	9 0	13·6	..	.
Tipperah	Comillah	...	6	...	...	...	...	52·5	...	..	...
Patna	Patna City	..	34	13	...	...	.	14·9	16·5	..	...
Gya	Gya	...	38	4	...	...	.	33 9	12·9	...	...
Shahabad	Arrah	...	3	5	...	...		5 0	21 0	...	...
Mozufferpore ...	Mozufferpore	.	9	6	...	...	.	15 6	25 0		...
Durbhanga ...	Durbhanga	...	28	3	...	...	...	30 1	8 9	...	...
Sarun	Chupra	...	12	9	...	...	..	15 2	38 9	...	...
Bhagulpore ...	Bhagulpore	...	12	2	...	...	..	13 7	6·0	...	...
Monghyr	Monghyr	...	13	2	...	...	...	15·1	8·3	...	...
Purneah	Purneah	...	3	2	...	...	..	17·0	18·4	...	...
Puri	Puri	...	17	...	...	...	...	36 0		...	...
	TOTAL ...	7	515	214	..	...	30·4	29 3	25 4	..	...

DISTRICTS.	NAMES OF MUNICIPALITIES.	15. Mortality according to Age — Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	4	...	1		2	5	...	2	5	3	315 2	... .	22 3	.. ..	33 3	32 8	.. ...	23·5	105·9	105·3
Midnapore	Midnapore	8	1		..	...	3		3	..	3	559 9	22·1	..	. ...		21 2		41·9	..	85·2
Hughli	Hughli and Chinsurah ...	3	1	...	1	.	2	1	1	2	4	165·4	19 5	. .	17·2	.	13 6	7·4	10 1	31 8	83·0
Serampore	Serampore	3	2		1	.	1	11	3	1	1	219 7	57·6	... ..	23 4	..	9 7	115 0	46·2	27·2	37 4
	Utterpara		1	..	...	...	...	...	2	1	..	.	247·0	. ..		......	.. ..	......	148·4	141·8	......
Howrah	Howrah	13	5	1	2	...	8	5	5	4	8	327·7	46·9	8·3	15 8	......	18 3	13 5	22·1	37·9	110·9
	Bali	1	.	.	...	..	..	1	.	1	1	143 6	. .	....	......	.. .	.. ...	18 6	......	49·6	71·0
24-Pergunnahs ...	Suburbs of Calcutta ...	35	34	6	7	14	45	43	25	29	50	332 0	109 4	15·8	20·3	40·4	40·3	43·4	38·3	88·9	182·6
Nuddea	Kishnaghur	1	...	1	1	..	2	1	2	1	4	104·8	..	15·1	18·5	.. ...	21·6	12·1	31·9	34·7	120·4
	Ranaghat	1	.	.	...	..	...	...			...	251·2	..	. ....	......	...	... .	...	......	... ..	......
	Santipore	2	2	1	...	1	..	1	2	...	2	123·1	35·9	18·8	. ..	23·4	......	12·0	29·6	......	53·0
Jessore	Jessore	...	. .	1	...	..	. ..	...	.	...	...	... ..	.. ...	65·6	... ..	. ..	. ..	......	......	......	......
Rajshahye ...	Rampore Beauleah ...	...	...	..	1	1	2	4	4	1	...	......	......	......	23·9	31·3	25·0	57·7	84·8	41·9	.. ...
Darjiling	Darjiling	1	...	.	...	...	3	1	...	...	...	429·8	... ..	......	. ....	... ..	78·0	36·3	......	......	......
Dacca	Dacca	4	5	2	1	1	6	3	3	...	6	109 6	35·3	10 5	6·5	7·1	20·4	13·4	18·6	......	56·0
	Narainganj	2	...	...	...	2	1	2	...	1	1	372·8	..	... ..	......	99·5	19·5	45·6	......	66·4	79·8
Chittagong	Chittagong	...	...	1	1	...	...	1	1	..	2	.	... .	20 8	20·2	. . ..	......	15·6	23·0	......	130·7
Tipperah	Comillah	...	1	..	..	1	..	1	.	3	.	... .	39·8	......	......	41·3	.... .	26·1	......	194·8	......
Patna	Patna City	3	2	3	2	3	2	8	5	4	15	36·2	7·1	9·3	7·2	14 0	3·6	17·9	13·8	14·7	56·5
Gya	Gya	7	2	...	1	1	5	2	5	5	14	203·4	16·4	......	7·7	9 9	17·7	8·2	26·6	39·6	141·4
Shahabad	Arrah	4	1	...	.	...	...	.	...	.	3	161 5	11·7	.....	.....	......	.. ..	... ..	......	......	54·1
Mozufferpore ...	Mozufferpore	1	1	1	1	...	2	1	1	2	5	54 5	12·9	11·6	13·1	.	12·1	7·5	10·4	32·0	106·8
Durbhanga ...	Durbhanga	7	3	3		2	2	2	...	3	9	233 8	20·5	19·9	....	25·9	7·8	9·3	. .	35·6	146·5
Sarun	Chupra	6	2	1			1	1	3	3	4	216·1	19 6	8 4	......	... .	5·5	6·4	24·9	37·0	59 8
Bhagulpore ...	Bhagulpore	2	...	1	...	...	4	...	2	2	3	87 1	... ..	8·9	......	. ..	19 0	......	16·2	24·4	43·3
Monghyr	Monghyr	4	...	...	2	1	1	1	1	1	4	140 1	..	.. .	18 1	13·8	5 0	5 8	8·2	13·1	58·0
Purneah	Purneah	...	. .	1	...	1	1	1		...	1	..... .	....	32·9	... .	52·3	15·8	18·2	......	....	64·4
Puri	Puri	3	2	1	.	.	...	1	5	3	2	514 9	57 9	23·2	.. .	. ..	....	12·8	78·2	69·9	57·6
	TOTAL ...	115	65	25	21	30	96	92	75	72	145	197·2	30·8	9 9	9·5	15·7	18·4	21·0	[illegible]	39·3	93·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The 21st January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Offg. Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 19th January 1889, *as compared with the corresponding week of the previous year*

Nature of Cargo.	Week ending Saturday, the 19th January 1889.			Week ending Saturday, the 21st January 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1 803	4,62,560	8,717	1,851	4,43,486	7,952
Jute	211	1,31,95[illegible]	2,401	137	95,275	1,666
Firewood	167	75,125	1,167	142	80,035	1,178
Other articles	1,169	2,36,615	3,751	839	1,75,9[illegible]2	2,820
Total ..	3,350	9,09,550	16,039	2,9[illegible]9	7,94,758	13,616

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	384,287	4,60,992 13 0	50,96,198 10	10,96,819 9 0	29,458 5 0	15,87,270 11 0	111,958½	169,175½	281,129½
Or per mile of railway ...	...	304 8 7	...	724 9 2	19 7 4	1,048 9 1	......	......	.....
For previous weeks of half-year ...	......	......	......	......	...	......	......	......	...
Total for 12 days ...	384,287	4,60,992 13 0	50,96,198 10	10,96,819 9 0	29,458 5 0	15,87,270 11 0	111,953½	169,175½	281,129½
Comparison.									
Total for corresponding 2 weeks of previous year ...	520,648½	6,20,089 10 10	56,07,339 10	13,37,878 6 9	42,001 7 10	19,99,960 9 5	131,901	209,480	341,381
Per mile of railway corresponding period of previous year ...	...	409 10 3	......	883 13 1	27 11 11	1,321 3 3	...	....	.....
Total to corresponding date of previous year ...	520,648½	6,20,089 10 10	56,07,339 10	13,37,878 6 9	42,001 7 10	19,99,960 9 5	131,901	209,480	341,381

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for 2 weeks ending 14th January 1888.			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	19,99,970	1,321	1,513¾	15,87,271	1,049	1,513¾	3,53,58,735	570	1,513¾	3,39,03,550	546	......	14,55,185

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 57⅛ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	21,961	11,618 14 0	44,623 30	2,895 8 0	46 5 0	14,560 11 0	3,038	1,066	4,104
Or per mile of railway ...	384	203 2 0	780 10	50 9 11	0 13 0	254 8 11	......	......	......
For previous weeks of half-year ...	...	.....	...	...	...	......	.....	.....	......
Total for 12 days...	21,961	11,618 14 0	44,623 30	2,895 8 0	46 5 0	14,560 11 0	3,038	1,066	4,104
Comparison.									
Total for corresponding 2 weeks of previous year ...	26,358	13,269 2 11	66,604 20	3,960 13 0	105 3 3	17,335 3 2	3,656	1,132	4,788
Per mile of railway corresponding period of previous year ...	461	231 15 8	1,164 20	69 3 11	1 13 5	303 1 0	......	......	......
Total to corresponding date of previous year ...	26,358	13,269 2 11	66,604 20	3,960 13 0	105 3 3	17,335 3 2	3,656	1,132	4,788

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for 2 weeks ending 14th January 1888.			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		R	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅛	17,335	303	57⅛	14,561	255	57⅛	3,97,481	169	57⅛	3,82,580	163	......	14,901

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	4,085	700 1 0	43,163 0	1,041 2 0	12 2 0	1,753 5 0	604	242	846
Or per mile of railway	......	58 5 5	......	86 12 2	1 0 2	146 1 9	......	......	......
For previous weeks of half-year	......	......	......	......	......	......	......	......	......
Total for 12 days... ...	4,085	700 1 0	43,163 0	1,041 2 0	12 2 0	1,753 5 0	604	242	846
Comparison.									
Total for corresponding 2 weeks of previous year	6,658	1,097 13 1	45,177 20	1,010 14 0	17 14 6	2,126 9 7	646	34	986
Per mile of railway corresponding period of previous year	......	91 7 9	......	84 3 10	1 7 11	177 3 6	......	......	......
Total to corresponding date of previous year	6,658	1,097 13 1	45,177 20	1,010 14 0	17 14 6	2,126 9 7	646	340	986

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for 2 weeks ending 14th January 1888			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	2,127	177	12	1,753	146	12	37,647	77	12	35,864	73	.. ...	1,783

SINDIA STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 74⅝ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ..	8,493	6,225 3 0	1,67,486 30	6,156 4 0	114 12 0	12,496 3 0	1,091	1,349½	2,440½
Or per mile of railway .. .	.	83 3 7	......	82 4 10	1 8 7	167 1 0	......	......	...
For previous weeks of half-year	.. .	. ..	.... .	......	..	.	.. . .		..
Total for 12 days ...	8,493	6,225 3 0	1,67,486 30	6,156 4 0	114 12 0	12,496 3 0	1,091	1,349½	2,440½
Comparison.									
Total for corresponding 2 weeks of previous year ..	8,577½	6,356 4 7	1,84,038 30	10,445 2 0	217 0 3	17,018 6 10	1,330	3,162	4 492
Per mile of railway corresponding period of previous year ..	......	84 15 8	... .	139 10 3	2 14 5	227 8 4	......	.... .	
Total to corresponding date of previous year	8,577½	6,356 4 7	1,84,038 30	10,445 2 0	217 0 3	17,018 6 10	1,330	3,'62	4,492

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for 2 weeks ending 14th January 1888.			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
74⅝	17,018	228	74⅝	12,496	167	74⅝	3,52,748	115	74⅝	2,76,998	90	......	75,750

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P.			
Total traffic for the period ...	30,815	7,913 6 0	14,231 30	407 6 0	12 5 0	8,423 1 0	1,554	105	1,659
Or per mile of railway	.....	355 10 6	......	22 5 8	0 8 10	378 9 0	......	......	......
For previous weeks of half-year	......	.....	......	.....	......	... ..	......	......	.. ..
Total for 12 days ...	30,815	7,913 6 0	14,231 30	497 6 0	12 5 0	8,423 1 0	1,554	105	1,659
Comparison.									
Total for corresponding 2 weeks of previous year .	33,987½	8,372 15 6	14,639 30	456 6 0	11 3 0	8,840 8 6	1,723	213	1,936
Per mile of railway corresponding period of previous year	.. .	376 5 0	......	20 8 2	0 8 1	397 5 3	......	......	......
Total to corresponding date of previous year	33,987½	8,372 15 6	14,639 30	456 6 0	11 3 0	8,840 8 6	1,723	213	1,936

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for 2 weeks ending 14th January 1888.			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	8,841	397	22¼	8,423	379	22¼	2,02,069	222	22¼	2,11,803	232	9,734	......

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the first 12 days	4,070	1,679 0 0	23,511 0	1,235 0 0	22 0 0	2,936 0 0	873	435	1,308
Or per mile of railway ..	182	62 0 0	863 0	45 0 0	1 0 0	108 0 0	... ..	......	......
For previous weeks of half-year	... ..	... ..	... .	... ..	......	...	... .	. .	
Total for one week ...	4,070	1,679 0 0	23,511 0	1,238 0 0	22 0 0	2,936 0 0	873	435	1,308
Comparison.									
Total for corresponding period of previous year	5,528	2,020 0 0	44,102 0	2,075 0 0	34 0 0	4,129 0 0	1,018	808	1,826
Per mile of railway corresponding week of previous year	203	74 0 0	1,618 0	76 0 0	1 0 0	151 0 0	......	......	. ....
Total to corresponding date of previous year	5,528	2,020 0 0	44,102 0	2,075 0 0	34 0 0	4,129 0 0	1,018	808	1,826

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 14th January 1888.			Receipts for the first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	4,129	151	27¼	2,936	108	27¼	70,222	64	27¼	77,940	71	7,718	......

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of January 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 12 days on 273 miles open	58,236	20,059 0 0	2,30,219 0	20,273 0 0	5,175 0 0	45,507 0 0	9,000	9,179	18,179
Or per mile of railway . ..	213	74 0 0	843 0	74 0 0	5 0 0	153 0 0	.....	.... .	...
For previous weeks of half-year	.....	. ..	......	......	......	......	...	.. ..	... ..
Total for one week ...	58,236	20,059 0 0	2,30,219 0	20,273 0 0	5,175 0 0	45,507 0 0	9,000	9,179	18,179
COMPARISON.									
Total for corresponding period of previous year on 259 miles open	76,454	28,957 0 0	3,92,702 0	43,636 0 0	6,258 0 0	78,851 0 0	12,357	15,558	27,915
Per mile of railway corresponding week of previous year ...	295	112 0 0	1,516 0	168 0 0	7 0 0	287 0 0*	......	......	..
Total to corresponding date of previous year	76,454	28,957 0 0	3,92,702 0	43,636 0 0	6,258 0 0	78,851 0 0	12,357	15,558	27,915

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway"

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 14th January 1888.			Receipts for the first 12 days of January 1889			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89	Total decrease in 1888 89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs.	Rs.	Rs.
259	78,851	304	273	45,507	167	250·86	13,50,073	135	262·17	12,67,851	121	....	82,222

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 23rd January 1889.

REGISTERED No. 29.

No. 5 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JANUARY 30, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

ROAD CESS.

No. 438R.C.

Dated Calcutta, the 24th January 1889.

READ—

Letter from the Accountant-General, Bengal, No. 613L.F., dated 18th January 1889, submitting an abstract of the receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 30th September 1888.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees for the second quarter of the year 1888-89 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong and Chota Nagpore Divisions; to the Superintending Engineers of the Eastern and Western Circles; and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal.

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal,

P. W. Dept.

DISTRICT

Statement of Receipts and Expenditure of the several District Road

RECE

DISTRICTS		Balance in treasury on 1st July 1888.	Provincial rates.					Interest on arrears of road cess.	Public Works.			Irrigation	Miscel.	
			Cess on land.	Cess on mines and railways	Cess on houses.	One per cent road cess.	Total.		Road tolls.	Ferry tolls.	Total.	Canal tolls.	Rent of serais and staging bungalows.	Fees, fines and forfeitures.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Cess Districts	Darjeeling ..	5,233 10 1	2,174 14 2	3 0 9	..	......	2,177 14 11	0 5 10	.	.	...	..	..	
	Hazaribagh	32,207 11 11	2,770 11 10	282 7 3		. ..	3,053 3 1	62 14 11					105 0 0	10 4 0
	Lohardugga	31,621 2 1	481 5 6			.	481 8 6	22 13 10	.		..	..		49 4 0
	Manbhoom .	30,087 2 1	3,598 7 4	328 5 0	...	..	3,926 12 4	238 1 1	...				865 8 6	...
	Total ..	99,149 10 2	9,025 9 10	613 13 0	......	. ..	9,639 6 10	324 3 8	.. .		... ..	......	970 8 6	59 8 0
Non-cess Districts	Chittagong Hill Tracts	5,403 8 2		.			......		. ..					
	Sonthal Pergunnahs	38,081 5 9	.	... .			..	.					59 4 0	6 0 0
	Singhbhoom	15,407 9 9		..	.	.		.	...	.				
	Total	56,892 7 8	.. .	. .		.. .		... .				.	59 4 0	6 0 0
Grand Total ...		1,56,042 1 10	9,025 9 10	613 13 0	.		9,639 6 10	324 3 8	.	.	.	..	1,029 12 6	65 8 0

EXPEN

DISTRICTS.		Refunds.			Provincial rates	Administration.			Stationery	Public Works				
		Cess	Other receipts	Total.	Establishment and contingencies of office of collection.	Establishment and contingencies of Committee's office.	Percentage cost of establishment for offices of account and control	Total.	Stationery and printing	Original works	Repairs	Establishment	Tools and plant.	Toll and ferry establishment and contingencies
		Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
Cess Districts.	Darjeeling ..	...			268 10 0	321 15 0	.	321 15 0	59 12 0	1,006 8 6	1,946 5 8	931 4 2	7 0 0	...
	Hazaribagh ..				227 1 4	290 12 0	.	290 12 0	61 5 6	800 0 0	8,676 13 9	1,930 12 3	6 4 8	
	Lohardugga				603 7 3	146 15 0	.	146 15 0	68 11 9	230 0 0	9,613 14 4	2,287 0 0	26 0 0	..
	Manbhoom	.	372 15 6	372 15 6	241 9 9	376 14 5	..	376 14 5	79 5 9	1,080 1 10	7,916 14 4	1,517 8 0	214 2 3	...
	Total ..		372 15 6	372 15 6	1,340 12 4	1,136 8 5		1,136 8 5	269 3 9	3,125 10 4	28,154 0 1	6,666 8 5	253 6 11	.
Non-cess Districts	Chittagong Hill Tracts		..	..		5 6 6		5 6 6	.	1,794 13 11	434 0 0	1,049 2 3	20 0 0	...
	Sonthal Pergunnahs		.			259 12 0	..	259 12 0		459 9 3	4,904 8 6	1,509 13 0	411 8 0	.
	Singhbhoom		.. ..		.	148 2 9	.	148 2 9	40 1 0	673 7 9	2,629 1 2	690 0 0	36 9 0	...
	Total .		.	.. .	..	413 5 3	......	413 5 3	40 1 0	2,927 14 11	7,967 9 8	3,250 15 3	468 1 0	...
Grand Total			372 15 6	372 15 6	1,340 12 4	1,549 13 8	.	1,549 13 8	309 4 9	6,053 9 3	36,121 9 9	9,917 7 8	721 7 11	..

FORT WILLIAM,
The 20th December 1888.

·ROAD FUND.

*Committees f** the second quarter of the year* 1888-89 *ending* 30*th September* 1888.

IPTS.

LANEOUS. Miscellaneous	Total.	Grant from Government.	Suspense Account. Advances	Deposits.	Total.	Total receipts.	Balance of imprest in hands of Engineers and others, decreased.	Balance of uncashed cheques, increased	Total receipts including balance	Outlay	Balance in treasury on 30th September 1888.
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
		313 0 0	737 3 8	...	737 3 8	3,228 8 5	..		8,462 2 6	5,970 14 3	2,491 1 3
85 5 3	200 9 3	250 0 0	381 15 0		381 15 0	3,948 10 3	.	2,364 4 8	38,570 10 10	12,907 1 2	25,613 9 8
2 15 9	52 3 9	450 0 0	1,047 8 0	725 0 0	1,772 8 0	2,779 2 1		.	34,400 4 2	11,229 0 1	20,171 4 1
9 5 3	874 13 9	250 0 0	176 7 1	250 0 0	426 7 1	5,716 2 3	..	...	35,803 4 4	13,514 15 5	22,[illegible] 4 11
97 10 3	1,127 10 9	1,263 0 0	2,343 1 9	975 0 0	3,318 1 9	15,672 7 0	. ...	2,364 4 8	1,17,186 5 10	46,451 14 11	70,734 6 11
		15,000 0 0	709 5 0	...	709 5 0	15,709 5 0	57 12 9		21,170 9 11	3,353 6 8	17,817 3 3
122 4 3	187 8 3		528 1 9		528 1 9	715 10 0	.	173 14 9	38,970 14 6	10,113 12 9	28,857 1 9
		.	1,560 10 0	..	1,560 10 0	1,560 10 0	.. .	1 0 0	14,969 3 9	4,737 1 8	10,232 2 1
122 4 3	187 8 3	15,000 0 0	2,798 0 9		2,798 0 9	17,985 9 0	57 12 9	174 14 9	75,110 12 2	18,204 5 1	56,906 7 1
219 14 6	1,315 3 0	16,263 0 0	5,141 2 6	975 0 0	6,116 2 6	33,658 0 0	57 12 9	2,539 3 5	1,92,997 2 0	64,656 4 0	1,27,640 14 0

DITURE.

Establishment of Divisional Superintendent of Works.	Total.	Irrigation. Canal tolls	Miscellaneous. Staging bungalow establishment and contingencies	Staging bungalow, petty construction and repairs	Miscellaneous	Total.	Contribution to Provincial Government	Suspense Account. Advances	Deposits.	Total.	Total expenditure	Balance of imprest in hands of Engineers and others increased	Balance of uncashed cheques decreased.	Total outlay
Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.
... ..	3,891 2 4		..					342 0 0	.	342 0 0	4,883 8 1		1,087 6 2	5,970 14 3
	11,413 14 8		27 0 0	234 14 0	.	261 14 0		324 9 8	327 8 0	652 1 8	12,907 1 2			12,907 1 2
	12,156 14 4	.	48 0 0	28 2 4	23 0 0	97 2 4		328 0 0	626 0 0	954 0 0	11,027 2 8	48 14 9	152 14 8	11,229 0 1
	10,737 10 5			1,106 9 9		1,106 9 9		276 0 0	150 0 0	426 0 0	13,341 1 7	3 13 10		13,344 15 5
...	38,109 0 9	..	73 0 0	1,369 10 1	23 0 0	1,465 10 1		1,270 9 8	1,103 8 0	2,374 1 8	45,158 13 6	52 12 7	1,240 4 10	46,451 14 11
...	3,298 0 2	.	..		..		.	50 0 0		50 0 0	3,353 6 8	... .		3,353 6 8
....	7,278 6 9		...	98 5 0		98 5 0	.	1,977 5 0	..	1,077 5 0	9,613 12 9	500 0 0		10,113 12 9
......	4,038 1 11	.		13 8 0	20 4 0	33 12 0		477 0 0	..	477 0 0	4,737 1 8			4,737 1 8
......	14,614 8 10	.	... ..	111 13 0	20 4 0	132 1 0		2,504 5 0	..	2,504 5 0	17,704 5 1	500 0 0		18,204 5 1
...	52,814 2 7	..	73 0 0	1,481 7 1	43 4 0	1,597 11 1		3,774 14 8	1,103 8 0	4,878 6 8	62,863 2 7	552 12 7	1,240 4 10	64,656 4 0

E. T. ATKINSON,

Accountant-General, Bengal.

SANITARY CONTROL OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Calcutta, the 28th January 1889.

RESOLUTION.

READ—

The undermentioned letters and previous correspondence regarding the outbreak of cholera amongst emigrants from Bengal to Assam.

From the Superintendent of Emigration—

(1) No. 1036, dated the 1st September, 1888.
(2) No. 1037, dated the 3rd September, 1888.

From the Sanitary Commissioner for Bengal—

(1) No. 6676, dated the 26th October, 1888.
(2) No. 8569, dated the 22nd December, 1888.

The Lieutenant-Governor has had under consideration the circumstances connected with the outbreaks of cholera among emigrants on their way from Bengal to the labour districts of Assam, and the means best calculated to check such epidemics. The present law (Act I of 1882) recognises two distinct systems of emigration; labourers executing engagements under the first are kept under strict sanitary supervision from the date of recruitment to that of their arrival in Assam, every detail as to their lodging in depôts, their journey, their food, and their clothing being regulated on an elaborate plan, while those who adopt the second system, known as that of free emigration, do not execute any formal engagements until they reach Assam, and are on that account, as ordinary travellers, exempted from any special sanitary supervision while passing through Bengal. The latter constitute the great majority, and it has been ascertained that they are conveyed in large bodies, and detained for a considerable period in depôts, so that their position, so far as the necessity for sanitary control is concerned, does not differ from that of labourers engaged under the Act. The depôts now used for their reception at Raneegunge were recently inspected at the instance of the Indian Tea Association by the Superintendent of Emigration, who reported that he had found the sanitary arrangements to be very defective, the water-supply to be drawn in many cases from more or less unclean tanks, the cooking of the food to be imperfectly attended to, and the total absence of special hospital accommodation for the treatment of coolies attacked with cholera or other contagious diseases, and of satisfactory arrangements for the disposal of the dead or of their belongings. It seems to the Lieutenant-Governor to be most necessary that these depôts or rest-houses should be brought under sanitary supervision; and the question whether the law should not be amended with this object has been submitted for the consideration of the Government of India. In the meantime it seems desirable to take such temporary measures as are within the power of Government for the prevention of the more flagrant sanitary abuses, without having recourse to the suspension of emigration, which had to be enforced in 1886 in certain districts.

2. A cholera shed and place of inspection for coolies going to Assam, with the necessary establishment required for the proper treatment and care of the sick, was last year established at Kurigram, and the agency sanctioned for medical inspection at Mugra was at the same time transferred to Naihatti, emigrants having ceased to break the journey at the former place. Arrangements were also made for the proper treatment of emigrants during the transit by rail, and for reporting by telegram to the Emigration authorities at Dhubri all cases of cholera occurring along the line of railway and at Goalundo. The Commissioners of the Chota Nagpore and Burdwan Divisions were further instructed, pending the contemplated amendment of the law, to take such executive measures as they could adopt with the co-operation of municipalities to mitigate the sanitary abuses brought to light by the inspection of the depôts in both divisions by the Sanitary Commissioner for Bengal. These orders are now repeated; and, in addition, the Lieutenant-Governor desires

that the Sanitary Commissioner or the Superintendent of Emigration, as they may agree between themselves, in conjunction with a Magistrate to be deputed for the purpose by the District Magistrate, should inspect the private depôts at Raneegunge, and indicate to the owners any sanitary improvements which the inspection may show to be urgently necessary. It is hoped that such requisitions will be obeyed, but if they are not, it will probably be necessary to take further steps under the municipal law, or by stopping emigration from infected areas. The depôts at Calcutta should be similarly inspected, in communication with the Commissioner of Police. The Municipality will be requested to ensure the due disposal at Raneegunge of the bodies of coolies dying at the depôts: cremation need not be insisted on, but all interments should be duly performed. The Superintendent of Inland Emigration will also be instructed to open a temporary cholera hospital at Raneegunge for infected coolies on a plan which he has prepared. In the event of an outbreak of cholera a medical officer will be deputed to the Sealdah station, and another to the Raneegunge station, to examine emigrants, and, in communication with the Railway authorities, to prevent those infected from starting. The depôt from which an infected coolie comes should be ascertained in each case with a view to the adoption of precautionary measures.

The increased expenditure involved in these arrangements should be borne by the Inland Labour Transport Fund.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

DONATION MADE BY MAHARANI SURNOMOYEE, C.I.E., OF CASSIMBAZAR FOR THE RELIEF OF DISTRESS IN ORISSA.

THE following correspondence is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT;
CALCUTTA,
The 29th January, 1889.

No. 28R, dated Cuttack, the 7th January, 1889.

From—C. F. WORSLEY, ESQ., Commissioner of the Orissa Division,
To—The Secretary to the Government of Bengal, Revenue Department.

IN forwarding copy of the correspondence noted in the margin, relative to a donation of Rs. 1,000 presented by Maharani Surnomoyee, Member of the Imperial Order of the Crown of India, for the relief of distress in Orissa, I have the honour to suggest that the thanks of Government may be given to the Maharani for her benevolent act, and that my retention of the money in deposit against future contingencies may be approved.

Margin: The Maharani's letter, No. 301, dated 9th November, 1888. This office letter, No. 2114, dated 7th December, 1888. The Maharani's letter, No 336, dated 13th December, 1888.

No. 301, dated Cassimbazar Rajbaree, the 9th November, 1888.

From—MAHARANI SURNOMOYEE, Member of the Imperial Order of the Crown of India, Cassimbazar.
To—The Commissioner of the Orissa Division.

I AM grieved to learn that scarcity is on its utmost height in the province of Orissa, and that actual distress has already prevailed in some parts of the country. I feel it, under the circumstances, a duty incumbent on me to come forward at this critical moment with my humble aid on behalf of the suffering people, and beg to enclose a donation of Rs. 1,000* (one thousand rupees) towards their relief.

An acknowledgment is solicited.

* Half Government Currency Note R/95 68113 for Rs 1,000

No. 2114R, dated Cuttack, the 7th December, 1888.

From—C. F. WORSLEY, ESQ., Commissioner of the Orissa Division,
To—MAHARANI SURNOMOYEE, Member of the Imperial Order of the Crown of India, Cassimbazar.

WITH reference to your No. 309 of the 26th November, 1888, I have the honour to acknowledge receipt of the right half of the currency note for rupees one thousand, and to thank you for your liberal donation for the relief of distress in Orissa.

2. I am happy to inform you that at the present time, owing to the late seasonable rains and the improved prospects of the crops, there is no necessity for the administration of relief in any district of this division. With your approval I propose to keep the money in deposit for some months, and should it not be required, as I trust it will not, for charitable relief during the next hot season, I will again communicate with you as to its disposal. Though happily your anticipation of continued distress has not as yet been realized, I none the less warmly appreciate your kind motives and solicitude for the people of Orissa.

No. 336, dated Cassimbazar Rajbaree, the 13th December, 1888.

From—MAHARANI SURNOMOYEE, Member of the Imperial Order of the Crown of India, Cassimbazar,
To—The Commissioner of the Orissa Division.

I HAVE the honour to acknowledge the receipt of your letter, No. 2114R, dated the 7th instant, and in reply beg to state that I feel a pleasure which I know no words to express at the happy turn the events have taken of late I am really glad of the agreeable disappointment of my hopes of affording relief in distress which is no longer apprehended. If, however, on some future occasion, my humble help goes to meet even in the slightest measure the wants of the suffering humanity or to promote the cause of any public interest, I shall consider myself amply repaid. I respectfully leave to you the disposal of the amount of my donation. I shall only be happy to hear how it is appropriated when occasion occurs.

No. 351—23Fam., dated Calcutta, the 28th January 1889.

From—H. W. C. CARNDUFF, ESQ., Under-Secretary to the Government of Bengal, Revenue Department,
To—The Commissioner of the Orissa Division.

I AM directed to acknowledge the receipt of your letter No. 28R, dated the 7th instant, and annexures, regarding a donation of Rs. 1,000 made by Maharani Surnomoyee, C.I.E., of Cassimbazar, for the relief of distress in Orissa.

2. In reply, I am to say that the Lieutenant-Governor approves your proposal that the sum referred to should be kept in deposit for the present against future contingencies, and I am at the same time to request that the Lieutenant-Governor's thanks may be conveyed to the Maharani for her benevolence.

PROJECTED TRAMWAY FROM JULPIGOREE TO THE WESTERN DOOARS.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Communications.

No. 309C, dated Calcutta, the 29th January 1889.

READ—

Letter No. 2D.T.R., dated the 31st August 1888, from the Inspector of Local Works in the Rajshahye Division, submitting the Dooars Tramway project.

Letter No. 257, dated the 20th September 1888, from the Inspector of Local Works, submitting the statements referred to in the report on the project.

Read again—

Letter dated the 19th September 1887, from Messrs. Finlay, Muir and Company and others, urging the necessity for the construction of a tramway between the tea-gardens in the Dooars and the Northern Bengal State Railway.

Letter No. 2015C., dated the 21st February 1887, to the Inspector of Local Works in the Rajshahye Division, communicating orders for making a survey for the line of tramway proposed, and preparing an estimate of the cost of constructing the tramway.

Letter No 2149C., dated the 13th December 1887, to Messrs. Finlay, Muir and Company and others, informing them of the steps that have been taken to have a project prepared for the tramway.

RESOLUTION.—The question of improving the means of communication between the Dooars tea districts and Julpigoree has been brought several times to the notice of the Government of Bengal. In September 1887, Messrs. Finlay, Muir and Company and others again urged upon the Government the pressing necessity for connecting the tea-gardens in the Dooars with the Northern Bengal State Railway, and asked for a guarantee of four per cent. for a fixed period to enable them to raise the capital required. The Lieutenant-Governor then determined to have the surveys for the line carried out by the Public Works Department and expressed his willingness to give, free of charge, the land, and at a nominal rate such timber as might be available from the adjoining Government forests; also favourable rates for the carriage of the tramway material over State Railways: and His Honour further stated that when the result of the survey was received he would consider any fresh proposals that might be made, and see if terms could be arrived at for a work which would be of great utility to the tea districts.

2. In November 1887, the Government of Bengal ordered the commencement of the surveys and the preparation of the necessary plans and estimates of the cost of constructing the tramway.

3. Two proposals had been submitted for connecting the tea-gardens with the railway. The first, and that which had received the most support, was for a tramway starting from the bank of the river Teesta opposite Julpigoree and running north through the country to the west of the Durlah river to a point above its junction with the Chel and below its junction with the Mal and the Neora. Crossing the Durlah in this locality, the line would run along the general alignment of the Mal road to near the Mal post-office, thence running west *viâ* the Bullabaree bungalow to the Chel. To serve the Nagracotta gardens there would be a branch leaving this line at a point below the crossing of the Durlah and running in an easterly direction to the point where the Nagracotta road crosses the Juldaka river. The length of the main line would be 35 miles and that of the branch about 6 miles.

The second proposal was for a line joining the Northern Bengal State Railway at Silliguri. This line would run in a north-easterly direction to a point on the Teesta below its junction with the Gheesh, where there would be a steam ferry. From this point the line would trend towards the north, running between the Gheesh and the Chel rivers to some point on the latter at which it could be bridged. It would then run in an easterly direction as far as the Mal river, beyond which it was understood it could not be carried except at great cost.

4. The survey for the line was begun in December 1887, and, after some correspondence as to the proper route to be adopted, was completed in August

1888. The plans and estimates of the cost of constructing the tramway have now been completed, and the whole project is sufficiently matured for the consideration of any definite proposals that may be made.

5. The project as it now stands is for a tramway from a point opposite Julpigoree on the east side of the Teesta river to Mal, a mart in the centre of the Western Dooars, with branches to Dam-Dim and Ramsahai, the whole being 40 miles in length. The reasons for placing the line as laid down are given in detail in the report on the estimate which accompanies this Resolution. The line will provide access to most of the tea-gardens, and it is capable of being extended to the Chalsa gardens hereafter.

6. The total cost of the tramway was estimated by the Inspector of Local Works who had charge of the surveys at Rs. 12,56,682. The estimate has been revised and corrected in this office, and now stands at Rs. 11,26,017, as shown in the accompanying note (Appendix F). The estimate as it now stands is believed to be a reliable one, but the Government can undertake no responsibility for its accuracy.

7. The estimate of the traffic can at best be only approximate, and the Government of Bengal cannot be responsible for its correctness. Returns of traffic will be found appended to this Resolution, and it is for those who propose to take up the scheme to estimate what portion of this traffic would be carried on the tramway, and what receipts would be derived from it.

8. It is now left to those interested to submit proposals framed in accordance with the "Bengal Tramways Act, 1883," for the construction of this tramway. The demands on the District Fund are such as to preclude the District Board from giving any guarantee for the payment of interest on the capital required for the undertaking, and the concessions which the Government is prepared to make must be considered as limited to those specified in the first paragraph of this Resolution.

ORDER.—Ordered that this Resolution be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

E. J. MARTIN,

Offg. Secy. to the Govt. of Bengal,
P. W. Dept.

Documents accompanying.

1. Index map.
2. Letter dated the 19th September 1887, from Messrs. Finlay, Muir and Company and others. (Appendix A.)
3. Letter No. 2015C., dated the 2nd December 1887, to the Inspector of Local Works, Rajshahye Division, with enclosure. (Appendix B.)
4. Letter No. 2149C., dated the 13th December 1887, to Messrs. Finlay, Muir and Company and others, with enclosure. (Appendix C.)
5. Report on the estimate for the tramway, with the estimate of its cost. (Appendix D.)
6. Letter No. 257, dated the 20th September 1888, from the Inspector of Local Works, Rajshahye Division, with enclosure. (Appendix E.)
7. Note on the project by Mr. W. B. Bestic. (Appendix F.)

Statement showing the actual receipts and expenditure of Provincial services for 1887-88 *and the revised estimates for* 1888-89.

RECEIPTS.	Actuals, 1887-88.	Revised estimate, 1888-89.
	Rs.	Rs.
Opening balance ...	10,98,925	33,09,000
Principal Heads of Revenue—		
I.—Land Revenue ... Proper ...	97,88,195	98,40,000
I.—Land Revenue ... Adjustments ...	(—)2,40,185	(—)5,19,000
III.—Salt ...	78,208	80,000
IV.—Stamps ...	1,03,62,028	1,03,50,000
V.—Excise ...	27,16,436	27,63,000
VI.—Provincial rates ...	42,36,538	42,03,000
VII.—Customs ...	59,584	52,000
VIII.—Assessed taxes ...	18,69,971	19,50,000
IX.—Forests ...	3,28,897	3,30,000
X.—Registration ...	5,08,912	5,25,000
Total ...	2,97,08,584	2,95,83,000
XII.—Interest ...	67,093	71,000
Post-office, Telegraph and Mint—		
XIV.—Telegraphs ...	1,163	1,000
Receipts by Civil Department—		
XVI.—Law and Justice—		
Courts of Law ...	7,74,255	7,75,000
Jails ...	7,10,279	7,90,000
XVII.—Police ...	3,13,349	3,24,000
XVIII.—Marine ...	9,10,098	8,85,000
XIX.—Education ...	6,94,053	5,50,000
XX.—Medical ...	1,38,554	1,40,000
XXI.—Scientific and other Minor Departments	1,56,308	1,65,000
Total ..	36,97,494	36,29,000
Miscellaneous—		
XXII.—Receipts in aid of superannuation ...	45,503	46,000
XXIII.—Stationery and printing ...	1,88,397	1,82,000
XXV.—Miscellaneous ...	6,94,837	7,00,000
Total ...	9,28,737	9,28,000
Railways—		
XXVI.—State Railways (gross earnings) ... Eastern Bengal State Railway ... Other Railways ...	1,12,73,485	1,15,43,000
Irrigation—		
XXIX.—Major works (direct receipts) ...	11,03,229	13,58,000
XXX.—Minor works and navigation— By Public Works Department ,, Civil Department ...	9,64,670	10,03,000
Total ...	20,67,899	23,61,000
Buildings and Roads—		
XXXII.—Civil works—		
By Public Works Department ...		1,60,000
,, Civil Department ...		2,22,000
Total ..	4,02,801	,82,000
Contributions ...		..
Total	4,81,47,256	4,84,98,000
GRAND TOTAL ..	5,01,46,181	5,18,07,000

EXPENDITURE.	Actuals, 1887-88.	Revised estimate, 1888-89.
	Rs.	Rs.
Direct demand on the Revenue—		
1. Refunds and drawbacks	1,56,096	1,65,000
2. Assignments and compensations ...	1,88,565	1,49,000
3. Land Revenue ...	34,05,966	35,07,000
5. Salt ...	12,369	22,000
6. Stamps ...	3,04,216	3,71,000
7. Excise ...	1,06,629	1,12,000
8. Provincial Rates ...	3,47,213	3,18,000
9. Customs ...	5,30,638	5,30,000
10. Assessed Taxes ...	75,706	79,000
11. Forests ...	1,94,858	1,98,000
12. Registration ...	2,89,231	2,93,000
Total ...	56,71,487	57,44,000
14. Interest on other obligations ...	..	......
Post-office, Telegraph and Mint—		
16. Telegraphs ...	915	1,000
Salaries and expenses of Civil Department—		
18. General Administration	15,42,879	15,33,000
19. Law and Justice—		
Courts of Law ...	70,40,386	80,60,000
Jails ...	15,31,090	17,60,000
20. Police ...	47,86,787	48,05,000
21. Marine ...	9,16,601	12,60,000
22. Education ...	24,22,221	24,13,000
24. Medical ...	14,43,691	14,84,000
25. Political	......	28,000
26. Scientific and other Minor Departments ...	3,03,598	3,23,000
Total ...	2,08,87,253	2,16,66,000
Miscellaneous—		
29. Superannuation, &c.	12,79,572	13,51,000
30. Stationery and Printing	10,46,423	10,41,000
32. Miscellaneous ..	3,43,135	2,17,000
Total	26,69,130	26,09,000
Famine Relief and Insurance—		
33. Famine Relief ...	......	1,00,000
37. Construction of railways ...	... ..	(—)8,000
Railways (Revenue account)—		
38. State Railways—		
Working expenses { Eastern Bengal State Railway; Other Railways ... }	59,34,865	59,90,000
Interest on debt ...	30,81,696	32,75,000
40. Subsidized Companies—Land, &c. ...	49	...
41. Miscellaneous Railway expenditure ...	66,441	1,29,000
Total	90,83,051	93,94,000
Irrigation—		
42. Major works—		
Working expenses ...	15,03,585	14,76,000
Interest on debt ...	23,13,446	23,40,000
43. Minor works and Navigation—		
By Public Works Department ..	15,18,533	16,89,000
,, Civil Department	1,916	2,000
Total ...	53,37,480	55,07,000
Buildings and roads—		
45. Civil works—		
By Public Works Department ..		38,86,000
,, Civil Department ...		35,000
Total ...	29,26,811	39,21,000
Contributions ...	2,61,063	7,30,000
Total ...	4,68,37,190	4,96,64,000
Closing balance ...	33,08,991	21,43,000
GRAND TOTAL ...	5,01,46,181	5,18,07,000
Provincial surplus (+) or deficit ...	(+)13,10,066	(—)11,66,000

Published for general information.

FINANCIAL DEPT.,
The 29th January 1889.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 26th January 1889.

Division	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.					
		Western Districts.			
BURDWAN DIVN.	1	Burdwan	Jan. 26, '89	Nil	Weather—cool. Spring prospects fair. Prices stationary.
	2	Bankoora	„ 26, '89	Nil	Weather—seasonable. No change in prospects of standing crops. Mustard and sugarcane are being cut. Prices continue stationary.
	3	Birbhum	„ 26, '89	0·05	Weather—seasonable. Paddy is being threshed out. *Rubbi* crops promising.
	4	Midnapur	„ 26, '89	Nil	Weather—rather warm for the time of year. The *rubbi* will be poor for want of rain. *Boro* is still being transplanted in parts.
	5	Hugli	„ 26, '89	Nil	Weather—fair. *Rubbi* crops promising.
		Howrah	„ 28, '89	Nil	Weather—seasonable. State and prospects of crops fair, but a little rain is wanted.
		Central Districts.			
PRESIDENCY DIVN.	6	24-Perghs.	Jan. 29, '89	Nil	Weather—cloudy and foggy. Harvesting of *amun* nearly over. Winter crops suffering from want of rain. Manufacture of sugar continues.
	7	Nuddea	„ 26, '89	Slight rain.	Weather—cool and seasonable; slight rain on 24th. *Rubbi* crops promising, except in Kushtea and in parts of the Meherpore sub-division. Rain urgently wanted.
	8	Khoolna	„ 26, '89	0·07	Weather—cool and clear. Cold-weather crops fair. *Amun* harvest nearly over with 10 annas outturn.
	9	Jessore	„ 26, '89	Nil	Weather—pretty cool towards the latter part of the week. *Amun* harvesting over. Rain wanted for the *rubbi* crops, the prospects of which are fair.
	10	Moorshedabad	„ 26, '89	0·10	Weather—a portion of the week was cloudy and hot for the season; cold from the 25th. *Haimanti* harvesting almost completed. *Kalai* being cut and gathered still. *Rubbi* promising.
RAJSHAHYE DIVN.	11	Dinagepur	„ 26, '89	Nil	Weather—seasonable. Harvesting of *haimanti* paddy almost over. Sugarcane is still being cut. Prospects of *rubbi* fair. Coarse rice selling at 18 seers per rupee.
	12	Rajshahye Nattore	„ 26, '89 ...	0·13 0·20	Weather—seasonable. *Amun* harvest nearly over. Recent rain will be beneficial to standing crops. Prospects of spring crops generally fair.
	13	Rungpur	„ 26, '89	0·04	Weather—cloudy and cool. The standing crops are doing well, but some rain is urgently needed. Land is being prepared for *aus* paddy and jute.
	14	Bogra Sherpore Nowkhila	„ 26, '89 ... 	0·06 0·05 0·10	Weather—seasonable; slight showers fell on 24th. Harvest of winter rice over. Spring crops growing fairly, but more rain needed. Sugarcane is being cut. Common rice selling at 20 seers per rupee.
	15	Pubna Serajgunge	„ 26, '89 ..	Nil 0·09	Weather—fine. *Rubbi* crops are becoming worse for want of rain.
	16	Darjeeling	„ 25, '89	0·51	Weather—cold and cloudy. More rain wanted. Crops doing fairly well.
	17	Julpigoree	„ 26, '89	0·46	Weather—cool, occasionally cloudy. Harvesting of *haimanti* rice completed except in a few places. Rain, which fell on the 24th, will do much good. Prices stationary.
		Eastern Districts.			
DACCA DIVN.	18	Dacca	Jan. 26, '89	Nil	Weather—fine and cold. Pulses and mustard are being gathered. Cutting of sugarcane continues. Prospects of winter crops good.
	19	Furreedpur	„ 26, '89	Nil	Weather—warm; another threat of rain has passed off without any rain. State and prospects of crops good. Rain would benefit them, and the absence of it is certainly disappointing. But in this district rain is less needed than in most other districts, for the land lies low, and the rivers are numerous, and the soil is never dry, and for the cold-weather crops the absence of rain is not of much importance.
	20	Backergunge	„ 25, '89	Nil	Weather—seasonable. Prospects of crops fair. Harvesting of *amun* crop is still going on; outturn 12 annas.
	21	Mymensingh	„ 25, '89	Slight rain.	Weather—cool with foggy mornings. Slight rain on the 24th at the Sudder sub-division. Prospects of crops good. Mustard is being harvested.
CHITTAGONG DIVN.	22	Chittagong	„ 29, '89	Nil	Weather—seasonable. Winter crops thriving, but rain wanted. Prices steady.
	23	Noakholly	„ 25, '89	Nil	Weather—seasonable. Mornings sometimes foggy. *Rubbi* crops going on well. Rain wanted.
	24	Tipperah	„ 25, '89	Nil	Weather—seasonable and dry. Cold-weather crops are everywhere reported good, and their area is normal. Prices easy.
	25	Chittagong Hill Tracts.	„ 22, '89	Nil	Weather—mornings and nights foggy and cold, but at noon very sultry throughout the week. Mustard, chillies and other winter crops progressing. Mustard is forming into seeds in some places. Prospects not good for want of rain.
		Hill Tipperah	„ 24, '89	Nil	Weather—gloomy. Sugarcane still being cut. Prospects of chillies and tobacco fair.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
Patna Divn.			
26	Patna Jan. 26, '89 Behar ...	Nil 0·07	Weather—cold and cloudy. Prospects of standing *rubbi* and poppy crops favourable. Early mustard is being harvested in the Barh sub-division. *Boro* rice is being transplanted. Prices stationary.
27	Gya „ 26, '89	0·05	Weather—cold. Harvesting of paddy is being finished. Prospects of *rubbi* and poppy are promising.
28	Shahabad „ 26, '89 Buxar ... Sasseram .	0·11 0·45 0·20	Weather—cloudy and foggy. Showers have done some good to the *rubbi* crops, the prospects of which are on the whole fair. The outturn of the *aghani* crop is better than was formerly estimated, and probably does not fall short of ten annas. Prices stationary.
29	Durbhunga „ 27, '89 Madhubani ..	0·21 0·14	Weather—bleak and cloudy at times, but on the whole hot and bright. Tobacco and poppy promise well and *rahar* very fair. *Rubbi* has been benefitted in Madhubani by the rain. Food-grains slightly falling in prices. Common rice ranging from 18 to 19 seers per rupee throughout the district.
30	Mozufferpur „ 26, '89 Hajipur ... Sitamarhi ..	0·15 0·16 0·15	Weather—cloudy during the greater part of the week and temperature low The slight rain has been beneficial to the *rubbi* crops in the Sudder and Hajipur sub-divisions and in the southern part of Sitamarhi, and some good has also been done to the scanty crops in North Sitamarhi. Poppy is prospering satisfactorily.
31	Sarun „ 26, '89 Gopalgunge	0·36 0·53	Weather—cloudy throughout the week, with occasional rain and heavy morning fogs. Rain has been very beneficial to the young *rubbi* crops, of which the prospects are very favourable. Poppy is also doing well everywhere. Lands are being prepared for indigo. Prices stationary
32	Chumparun „ 26, '89	0·23	Weather—foggy, cloudy and fair alternately. Very cold since 25th. Prospects of standing *rubbi* and poppy crops improved to an appreciable extent by a shower of rain on the 24th. Prices show no tendency to fall, and pressure continues in the area affected by failure of the winter rice crop.
Bhagulpore Divn.			
33	Monghyr Jan. 26, '89	0 02	Weather—cold and occasionally cloudy. *Rubbi* crops doing well. Prices have risen slightly.
34	Bhagulpur „ 26, '89 Banka ...	Nil 0 13	Weather—seasonable; cloudy with slight drizzle on 24th. Mustard is being harvested. Planting of sugarcane is in progress. Lands are being ploughed in places. Prospects of *rubbi* crops favourable. Prices fairly stationary.
35	Purneah „ 26, '89	Nil	Weather—cold and foggy at night and in the morning. Paddy has been harvested with deficient outturn. *Rubbi* crops doing well, but rain is badly wanted.
36	Maldah „ 26, '89 Shibgunge ...	0 05 0·10	Weather—fair, occasionally cloudy. *Rubbi* crops are in good condition.
37	Sonthal Perghs. „ 26, '89 Godda ... Rajmahal ...	0·11 0·20 0·12	Weather—seasonable. Prospects of *rubbi* crops continue favourable. The rain of this week will do great good to the standing crops.
ORISSA.			
Orissa Divn.			
38	Cuttack Jan. 25, '89	Nil	Weather—fair and seasonable. *Sarad* rice is being threshed. Common rice sells at 18 seers 6 chittacks per rupee in town.
39	Pooree „ 24, '89	Nil	Weather—seasonable. Rain is wanted for *rubbi* crops. Winter rice is being threshed. *Dalua* crop doing well. Common rice 19 seers 11 chittacks per rupee in the Sudder sub-division and 17 seers 12 chittacks per rupee in the Khoorda sub-division.
40	Balasore „ 25, '89	Nil	Weather—seasonable *Rubbi* is being harvested. Prospects of *dalua* rice in the Bhudruck sub-division are good.
CHOTA NAGPORE.			
South-West Frontier Agency.			
Chota Nagpore Divn.			
41	Hazaribagh Jan. 25, '89	Nil	Weather—cold and seasonable. Rain, if it fall even now, will do good to *rubbi*; estimated outturn between 8 and 10 annas. Poppy doing well. Mustard being gathered; outturn about 9 annas. Sugarcane pressing continues, yield may be estimated at about 10 annas. Prices stationary, but high for the season.
42	Lohardugga „ 26, '89	0 05	Weather—cool. Slight rain with high winds on the 24th. Weather is now cool and bright. Prospect of *rubbi* not good. Prices steady.
43	Singbhoom „ 25, '89	Nil	Weather—seasonable, sky somewhat cloudy. Prospect of *rubbi* crops has not improved. Prices nearly the same as in last week.
44	Manbhoom „ 26, '89	Nil	Weather—seasonable with occasional clouds. Sugarcane pressing nearly over, outturn 8 to 12 annas. *Rubbi* crops coming up fairly.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

Calcutta; Revenue Dept.,
The 29th January 1889.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS.													
			Air pressure.			Wind.		Temperature.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	30·070	30·083	—	Calm	165	87·7	20th Jan.	63·8	20th Jan.	84·2	65·8	75·0	—	71·0
		Gopalpore ...	30·040	30·099	+·020	NNW	219	83·2	20th „	63·4	19th „	81·4	66·9	74·2	+3·6	71·9
		False Point ...	30·066	30·088	0	NNW	165	87·9	19th & 20th Jan.	60·0	22nd & 23rd Jan.	84·8	*62·4	73·6	+5·5	69·0
	Cuttack	Cuttack ...	30·016	30 101	+·025	Calm	22	92·4	19th & 20th Jan.	61·8	20th „	90·2	64·6	77·4	+4·5	67·3
	Balasore	Balasore ...	30·049	30·111	—·007	NNW	162·4	89·4	19th & 20th Jan.	54·0	23rd „	85·7	58·9	72·3	+4·4	62·3
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·080	30·107	+·016	Northerly	189	82·2	21st „	57·4	25th „	80 0*	60·3*	70·2*	+2·4	67·5
	Midnapore	Midnapore ...	29·957	30·116	+·028	N	86·6	91·3	20th „	53·2	23rd „	86·2	59·2	72·7	+5·9	65·0
	24-Pergunnahs ... ..., Howrah ... ..., Hooghly	Calcutta ...	30·082	30·105	+·032	N	51	85·5	20th „	53·8	22nd „	80 3	58·1	69·2	+3·1	62·6
	Burdwan	Burdwan ..	30·006	30·113	+·021	Calm	31·2	87·6	19th „	50·3	22nd & 23rd Jan.	82 7	55·9	69·3	+3·4	61·4
	Bankoora	Bankoora ...	29·785	30·105	—	NW	74	89 1	20th „	51·3	22nd „	83 2	57·7	70 5	—	62·5
	Beerbhoom ... ..., West Burdwan	Raneegunge	29·772	30·100	+·001	WNW	74·4	87·5	19th „	51·7	22nd „	82·9	56·3	69·6	+4·4	61·3
	Moorshedabad	Berhampore	30·036	30·107	+·030	Calm & Westerly.	47·6	84·6	19th & 20th Jan.	50·2	22nd & 23rd Jan.	79·9	53·6	66·8	+1·9	59·1
	Nuddea	Krishnaghur...	30·063	30·133	+·079	WNW	90·2	85·7	20th „	46 4	22nd „	81 3	52 3	66 8	+3·1	59 5
	Jessore ... ..., Khoolna	Jessore ...	30·079	30·114	+·041	Calm	48·7	86·7	20th „	48·9	22nd „	81 7	55 6	68 7	+3·4	61·6
East Bengal.	Chittagong	Chittagong ..	30·001	30·095	+·027	Calm	45·1*	85·1	19th & 20th Jan.	52·2	22nd „	82·8	57 0	69 9	+2·9	61·2
	Chittagong Hill Tracts	Demagiri ...						Observations not received.								
	Backergunge	Barrisal ..	30·084	30·097	+ 044	N	39·7	84·3	20th Jan.	51 1	23rd „	80·5	57·2	68 8	+4·4	65 0
	Noakholly	Noakholly ...	30·057	30·103	+·087	Calm	5·0	84·0	20th & 21st Jan.	49·2	22nd „	81·5	53 9	67·7	+3 3	62 2
	Furreedpore	Furreedpore .	30 067	30 109	+·044	Calm	42	84·3	20th „	49 5	21st „	77 5	53 6	65 5	+2·1	60·1
	Dacca	Dacca ...	30·065	30·089	+·031	Calm	44 2	86 1	20th „	53·3	21st „	81·9	56 9	69 4	+3·2	62·1
	Commillah	Commillah ..	30·056	30·093	+·027	NW	18·4	85 4	20th „	50 1	22nd „	82·4	54 9	68·7	+4·9	60·9
	Mymensingh	Mymensingh..	30·035	30 097	+·011	Calm & NE	40·3	77·9	24th „	48 8	21st „	62·3	53·1	57·7	−4·9	57 8
North Bengal.	Bogra	Bogra ..	30·012	30 079	+·028	W	46·8	84·3	20th „	47 9	21st „	79 6	53 1	66 4	+3·1	58 9
	Pubna	Sorajgunge ..	30·020	30·078	+·010	Westerly	36 2	84 0	20th „	48 7	22nd „	79 3	52 6	65 9	+3·3	58 8
	Rajshahye	Rampore Beauleah.	30·023	30·097	+·034	South-westerly.	69 2	83·0	20th „	47 7	22nd „	78 2	52 9	65 6	+4 1	59 8
	Maldah ..	Maldah* ..	30·022	30·107	—	NW	81·3?	81·0	20th „	47 9	21st „	80·1	51 4	65·8	—	63·8
	Dinagepore	Dinagepore ...	29 970	30·098	+ 038	SW	73	81·6	19th „	46·8	21st „	78 9	52 1	65 5	+3·7	58·0
	Rungpore	Rungpore ..	29·954	30 087	+·029	SSW	55	80·7	19th „	46 0	21st „	78·4?	51 0	64 7?	+3·5	55·7
	Julpigoree ... ..., Cooch Behar	Julpigoree ...	29 785	30·091	+·036	NW	34 3	61·9	22nd „	48·9	25th „	58 5	52 3	55·4	−6·2	57 5
	Darjeeling Hill Tracts ...	Darjeeling ...	23·010	—	+·056	ESE	146	54·1	21st „	32·4	25th „	48·4	37·0	42·7	+3·3	40·9
North Behar.	Purneah ... .., North Bhagulpore ..	Purneah ...	29·961	30·096	+·017	WSW	47·9	79·7	21st „	47·5	22nd „	77·7	50·4	64 1	+2·7	54·8
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga ...	29·917	30·096	+·019	SW	107	77·9	20th Jan.	51·9	21st Jan.	73·3	56·0	64·7	+2·7	57·6
	Chumparun	Motihari ..						Complete observations not to hand.								
	Sarun	Chupra ..	29·934	30·142	+·062	WSW	142·0*	65·5	19th „	40·5	21st & 22nd Jan.	60 7	51·8	56·3	−4·9	60·1
South Behar.	Shahabad	Dehree ..	29 753	30·132	+·037	SW	145 2	85·3	19th „	52·0	22nd „	79·6	55·4	67·5	−6 1	59·5
		Buxar ..	29·876	30·136	+·047	W	111·0	83 4	19th „	46·4	22nd „	76·5	52·0	64·3	+2·9	56·5
		Arrah ..	29·907	30·120	+·048	Westerly	35·0	82 8	19th „	46 9	21st „	76 7	50·5	63 6	+2·8	54·7
	Gya	Gya† ..	29·748	30·152	+·047	SSE& Calm.	52·0	84·4	19th „	48 9	22nd „	80·3	54 6	67·5	+3·7	58·6
	Patna	Bankipore ..	29·925	30·121	+·025	W	65·2	81·9	19th „	47·2	21st „	76 1	52·4	64·3	+2·7	50·8
	South Bhagulpore ..., Monghyr	Bhagulpore ...	29·921	30·092	+·036	W	91	80·3	19th & 20th Jan.	47·0	22nd „	76 2	53·0	64·6	+3·4	58·7
	Sonthal Pergunnahs ...	Doomka ...	29·591	30·124	+0·62	Calm	53 5	84·9	19th „	47·9	22nd „	79 9	53·1	66 5	+4·0	58·7
Chota Nagpore.	Hazaribagh	Hazaribagh ..	28·044	30·148	+·041	Calm & westerly.	198 7	81·8	19th „	49·6	22nd „	77·4	53·0	65 2	+3·2	58·6
	Lohardugga ... ..., Manbhoom	Ranchee ..	27 912	30·123	+·032	Calm	135·6	83·0	19th „	48·4	25th „	79 8	52 8	66 3	+5·3	61·5
	Singbhoom	Chyebassa ...	29·338	30·139	+ 064	Calm	10·8	88·7	20th „	51·0	23rd „	85·6	56·0	70·8	+4·2	64·5

* Means of six days.
† Do. of five „

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 25th of January 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
77	0·4	Nil	Nil	0·05	Nil	0 14	−0·14	44·12	55·50	−11·38	0·0	0·2	Pooree	Pooree (Pooree, Gopalpore, False Point)	Orissa.
71	0 7	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore		
85	3 3	Nil	—	—	—	—	—	—	—	—	—	—	False Point		
80	3·4	Nil	Nil	0·08	Nil	0·19	−0 19	51·79	51·83	−0·04	0·0	0 2	Cuttack	Cuttack	
84	0·9	Nil	Nil	0·05	Nil	0 21	−0·21	52 87	53·10	−0 23	0·0	0 2	Balasore	Balasore	
80	3 7	Nil	Nil	0 12	Nil	0· 9	−0·29	54 99	62·25	−7·26	0 0	0·3	Saugor Island	South-West Midnapore, South 24-Pergunnahs	South-West Bengal.
63	1·4	Nil	Nil	0 06	Nil	0 32	−0·32	61·49	51 38	+10·11	0·0	0 2	Midnapore	Midnapore	
83	1·3	0.01	Nil	0·11	Nil	0·36	−0·36	62·19	51 52	+10·67	0·0	0·3	Calcutta	24-Pergunnahs, Howrah, Hooghly	
68	1 7	Nil	Nil	0 16	Nil	0 28	−0 28	55 62	46 59	+9 03	0·0	0 3	Burdwan	Burdwan	
71	1 3	Nil	Nil	0 12	Nil	0 20	−0 20	51·73	52 09	−0·36	0·0	0 3	Bankoora	Bankoora	
68	1·6	drops	Nil	0·12	0·27	0 34	−0 07	56 76	51 51	+5·25	0 0	0 4	Raneegunge	Beerbhoom, West Burdwan	
85	1·7	0·10	0 04	0·14	0 32	0 38	−0·04	47 16	50 50	− 3·34	0 7	0 4	Berhampore	Moorshedabad	
81	0·7	Nil	Nil	0 10	Nil	0 25	−0 25	53 45	49 05	+4·40	0 0	0 3	Krishnaghur	Nuddea	
89	0	Nil	0 01	0·14	0 01	0 36	− 0 35	43·90	53 10	− 9 20	0 1	0·3	Jessore	Jessore, Khoolna	
85	1 3	Nil	Nil	0·18	Nil	0 47	−0 47	125 77	113 58	+12·19	0·0	0·5	Chittagong	Chittagong	East Bengal.
			Nil	0 27	Nil	0 46	−0·46	72·40	81 42	−9 02	0·0	0 5	Demagiri	Chittagong Hill Tracts	
82	0	Nil	Nil	0 18	Nil	0 48	− 0 48	71·82	76 82	−5 00	0 0	0 3	Barrisal	Backergunge	
88	2·3	Nil	Nil	0 13	Nil	0 56	−0·56	105·76	107 03	−1·27	0 0	0 3	Noakholly	Noakholly	
89	0	Nil	Nil	0·12	Nil	0 31	− 0 31	47·23	55 59	−8 36	0 0	0·3	Furreedpore	Furreedpore	
85	0	Nil	Nil	0 09	Nil	0 26	−0 26	55 43	59 69	−4·26	0·0	0·6	Dacca	Dacca	
89	0	Nil	Nil	0·16	0 20	0 50	−0 30	61·91	69·17	−7 26	0·0	0 4	Commillah	Tipperah	
91	0·6	0 08	0·07	0 12	0 40	0 32	+0 08	66·75	67 26	−0·51	0 8	0 3	Mymensingh	Mymensingh	
79	1 4	0 05	0 05	0 13	0·59	0 50	+0 09	44·02	57 17	−13 15	0 8	0 4	Bogra	Bogra	North Bengal.
88	0 3	0 11	0·05	0 09	0 90	0 30	+0 60	41 62	53·26	−11·64	0 5	0 4	Serajgunge	Pubna	
80	0 6	0 12	0·16	0 16	0 86	0 48	+0 38	45 86	53 86	−8 00	1 0	0 4	Rampore Beauleah	Rajshahye	
69	1 0	0·05	0 03	0·14	0·33	0 37	−0·04	40·64	54 12	−13 48	0·5	0 4	Maldah	Maldah	
81	1 0	Nil	0 04	0 19	0 25	0 30	−0 05	45 86	57·33	−11·47	0 8	0 4	Dinagepore	Dinagepore	
91	1 1	0·03	0 01	0 15	0 19	0·32	−0·13	56·05	73 67	−17·62	0 2	0 4	Rungpore	Rungpore	
88	0 3	0 64	0 25	0 23	0 29	0·28	+0 01	86 28	111·06	−24 78	0 8	0 5	Julpigoree	Julpigoree, Cooch Behar	
79	3·9	0·51	0·33	0 36	0·33	0 59	−0 26	98·41	121 08	−22·67	1·5	1·0	Darjeeling	Darjeeling Hill Tracts	
89	2·1	Nil	0·02	0 23	0·09	0·39	−0·30	47 88	58·56	−10·68	0 4	0 4	Purneah	Purneah, North Bhagulpore	North Behar.
			0·15	0·17	0·33	0 48	−0 15	39 72	43 38	−3 66	1·3	0·4	Mozufferpore	Mozufferpore	
81	2·0	0 21	0·13	0·21	0 32	0 48	−0·16	38 99	44 55	−5·56	1·3	0 4	Durbhunga	Durbhunga	
			0·23	0 13	0 23	0·40	−0·17	41·12	46 53	−5·41	1·0	0·3	Motihari	Champarun	
90	3·0	0·55	0 45	0·20	0·64	0·43	+0·21	38·07	42·74	−4·67	1 3	0 4	Chupra	Sarun	
75	0·3	0·13											Dooree	Shahabad	South Behar.
73	1·4	0·48	0·22	0 25	0·25	0·58	−0·33	42·16	39 97	+2·19	1·4	0 5	Buxar		
81	0 9	0 11											Arrah		
68	1·0	Nil	0·07	0 23	0 13	0·50	−0 37	49·59	41·48	+8·11	1·0	0·5	Gya	Gya	
75	4·1	0·13	0·05	0·19	0·13	0·44	−0·31	46 84	41·21	+5·63	0 8	0·5	Bankipore	Patna	
77	1·1	Nil	0·04	0·20	0·26	0 39	−0·13	48 54	43 01	+5·53	0 6	0 5	Bhagulpore	South Bhagulpore, Monghyr	
75	1·4	0·11	0·10	0·15	0·26	0 31	−0·05	52·50	50 74	+1·76	0 8	0·4	Doomka	Sonthal Pergunnahs	
65	1·9	0·08	0·14	0 19	0 37	0 47	−0·10	56·48	50 34	+6 14	1·0	0·5	Hazaribagh	Hazaribagh	Chota Nagpore.
62	1·1	0·05	0·16	0·29	0·26	0 71	− 0 45	50 50	48·97	+1 53	1·0	0 5	Ranchi	Lohardugga	
			Nil	0·16	0 12	0·38	−0·26	46·17	46 84	−0 67	0·0	0 4		Manbhoom	
66	1·4	Nil	Nil	0·22	Nil	0·48	−0·48	40·41	51·32	−10·88	0·0	0 5	Chyebassa	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
... denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ... years. The means of the district [illegible] the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional [illegible]

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 25th of January 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday 19th January 1889.	Sunday 20th January.	Monday 21st January.	Tuesday 22nd January.	Wednesday 23rd January.	Thursday 24th January.	Friday 25th January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
SOUTH-WEST BENGAL.	Pooree	Pooree								Nil	Nil	Nil	0·10	41·07	51·14
		Khurdah								Nil	Nil	Nil	0·14	44·38	56·33
		Banpur								Nil	Nil	Nil	0·04	36·78	50·38
		False Point								Nil	Nil	Nil	0·28	54·21	64·46
		Gop								Nil	Nil	Nil			?
		Pipli								Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore								Nil	Nil	Nil	0·14	56·21	46·83
		Banki								Nil	Nil	Nil	0·14	43·72	50·63
		Cuttack								Nil	Nil	Nil	0·18	52·69	50·10
		Kendrapara								Nil	Nil	Nil	0·24	45·21	53·19
		Jajpore								Nil	Nil	Nil	0·24	61·15	53·83
		Dharmsala								Nil	Nil	Nil	?	56·98	?
		Satipore								Nil	Nil	Nil	?		?
	Balasore	Chandbali								Nil	Nil	Nil	0·21	51·05	51·97
		Bhuddruck								Nil	Nil	Nil	0·1[illegible]	48·51	53·10
		Soroh								Nil	Nil	Nil	0·22	49·62	50·90
		Balasore								Nil	Nil	Nil	0·22	56·98	57·51
		Jellasore								Nil	Nil	Nil	0·35	55·85	52·52
		Baripodah								Nil	Nil	Nil	0·[illegible]	54·18	53·73
	Midnapore	Contai								Nil	Nil	Nil	0·16	50·70	61·18
		Saugor Island								Nil	Nil	Nil	0·21	57·09	66·98
		Tumlook								Nil	Nil	Nil	0·23	64·80	51·04
		Midnapore								Nil	Nil	Nil	0·36	63·04	48·65
		Ghattal								Nil	Nil	Nil	0·36	[illegible]	54·40
		Kakrahaty								Nil	Nil	Nil	?	65·28	?
		Hera								Nil	Nil	Nil	?	52·11	?
		Bhagwanpore								Nil	Nil	Nil		[illegible]·01	?
		Garbeta								Nil	Nil	Nil		64·41	?
	24-Pergunnahs	Diamond Harbour								Nil	Nil	Nil	0·50	57·18	58·40
		Canning Town							0·57	1	0·57	0·57		56·12	
		Alipore Jail								Nil	Nil	Nil	0·[illegible]0	61·95	55·37
		Barrackpore								Nil	Nil	Nil	0·[illegible]	61·56	48·09
		Dum-Dum								Nil	Nil	Nil	0·3[illegible]	[illegible]·71	51·56
		Baraset								Nil	Nil	Nil	0·[illegible]	[illegible]	49·05
		Busserhat								Nil	Nil	Nil	0·[illegible]1	61·3[illegible]	54·32
	Howrah	Howrah								Nil	Nil	Nil	0·31	[illegible]	51·94
		Uluberia (*Golabarriah*)								Nil	Nil	Nil	0·10	[illegible]·75	51·88
	Hooghly	Serampore								Nil	Nil	Nil	0·[illegible]	[illegible]	49·08
		Hooghly								Nil	Nil	Nil	0·[illegible]7	[illegible]	48·01
		Jehanabad								Nil	Nil	Nil	0·[illegible]	[illegible]·02	51·87
	Burdwan	Culna								Nil	Nil	Nil	0·2[illegible]	[illegible]·7	44·07
		Burdwan								Nil	Nil	Nil	0·18	[illegible]	47·69
		Cutwa									Nil	Nil	0·[illegible]5	60·[illegible]8	47·6[illegible]
		Raneegunge								Nil	Nil	[illegible]	0·[illegible]1	[illegible]·13	48·11
		Mankur								Nil	Nil	Nil		42·19	
	Bankoora	Bankoora								Nil	Nil	Nil	0·14	45·[illegible]7	51·10
		Bishenpore								Nil	Nil	Nil	0·19	[illegible]	51·[illegible]
		[illegible]								Nil	Nil	Nil	0·19	[illegible]	51·71
		Khatra								Nil	Nil	Nil	0·20	[illegible]·02	53·[illegible]
		Indas								Nil	Nil	Nil		41·26	
		Kotulpore								Nil	Nil	Nil		[illegible]·84	
		Onda								Nil	Nil	Nil		37·81	
		Gungajalghati								Nil	Nil	Nil		56·17	
		[illegible]pore								Nil	Nil	Nil		[illegible]·17	
		Sonamukhi								Nil	Nil	Nil		45·76	
	Beerbhoom	Bh. Soory						0·05		1	0·05	0·[illegible]7	0·35	53·68	53·60
		[illegible]mpore								Nil	Nil	0·28	0·30	17·46	51·17
		Rampore Haut								Nil	Nil	0·[illegible]8	0·45	68·72	51·[illegible]4
		Bolpore								Nil	Nil	Nil	-	61·55	
		Murarai								Nil	Nil	Nil	?		
	Nuddea	Ranaghat								Nil	Nil	Nil	0·24	62·51	46·80
		Kishnaghur								Nil	Nil	Nil	0·23	68·35	45·69
		Chooadanga								Nil	Nil	Nil	0·26	52·23	50·99
		Meherpore								Nil	Nil	Nil	0·[illegible]5	47·90	47·46
		Kooshtea								Nil	Nil	Nil	0·25	36·23	54·28
	Khoolna	Satkhira								Nil	Nil	Nil	0·3[illegible]	38·24	54·98
		Bagirhat								Nil	Nil	Nil	0·47	50·37	61·29
		Khoolna							0·07	1	0·07	0·07	0·4[illegible]	48·[illegible]6	51·76
	Jessore	Narail								Nil	Nil	Nil	0·19	29·09	45·96
		Jessore								Nil	Nil	Nil	0·[illegible]6	56·51	54·10
		Jhenidah								Nil	Nil	Nil	0·28	35·64	53·29
		Magoorah								Nil	Nil	Nil	0·20	42·90	48·25
		Bongong								Nil	Nil	Nil	0·24	49·00	51·67
	Moorshedabad	Kandi								Nil	Nil	0·18	0·28	51·09	49·99
		Berhampore							0·10	1	0·10	0·[illegible]4	0·[illegible]	41·39	51·22
		Lalbagh								Nil	Nil	0·08	0·19	46·31	50·83
		Azimgunge											0·19	?	51·10
		Jungipore						0·07		1	0·07	0·8[illegible]	0·42	46·37	49·07
		Lalgola							0·04	1	0·04	0·[illegible]	0·[illegible]0	51·04	51·16
		Jiagunge						0·03		1	0·03	0·[illegible]	-	46·70	?
		Akhrigunj						0·06		1	0·06	0·26	?	46·57	?
		Pathakbari								Nil	Nil	Nil	?	[illegible]	
EAST BENGAL.	Chittagong	Cox's Bazar								Nil	Nil	Nil	0·44	136·14	133·46
		Chittagong								Nil	Nil	Nil	0·4[illegible]	105·08	95·63
		Kutubdia								Nil	Nil	Nil	?	116·99	
		Satkania								Nil	Nil	Nil		51·41	
	Chittagong Hill Tracts	Rangamati								Nil	Nil	Nil	0·17	74·85	88·57
		[illegible]								Nil	Nil	Nil	0·14	[illegible]·35	78·26
	Backergunge	Patuakhali								Nil	Nil	Nil	0·17	85·60	87·34
		Pirojpore								Nil	Nil	Nil	0·[illegible]	61·59	65·02
		Barisal								Nil	Nil	Nil	0·[illegible]	[illegible]·39	67·53
		Bhola								Nil	Nil	Nil	0·63	74·57	81·33

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 25th of January 1889—contd.

Meteorological Division.	District.	Station.	Saturday, 19th January 1889.	Sunday, 20th January.	Monday, 21st January.	Tuesday, 22nd January.	Wednesday, 23rd January.	Thursday, 24th January.	Friday, 25th January.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			RAINFALL							TOTAL					
EAST BENGAL—concld.		*Gournadds*	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·28	?
		Bauphal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	98·35	?
	Noakholly	Noakholly	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	106·94	107·6[illegible]
		Feni	...	...	...	...	...	...	...	Nil	Nil	Nil	0·65	[illegible]	106·37
		Harishpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	121·82	?
		Ramganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	Furreedpore	Madaripore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·42	45·71	55·65
		Furreedpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·49	57·01	56·11
		Goalundo	...	...	...	...	...	...	...	Nil	Nil	Nil	0·51	45·98	52·81
	Dacca	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·35	6[illegible]·04	6[illegible]·97
		Dacca	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	[illegible]	58·28
		Narainganj	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	[illegible]	[illegible]
		Manickganj	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	[illegible]	[illegible]
		Joydebpore	...	...	...	...	...	...	...	Nil	Nil	0·20	?	[illegible]	?
	Hill Tipperah	Agartola	...	...	...	...	...	...	...	Nil	Nil	0·12	0·54	[illegible]	61·57
	Tipperah	Comilla	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	[illegible]
		Chandpore	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	[illegible]
		Brahmanbaria	...	...	...	...	...	...	...	Nil	Nil	0·39	0·57	[illegible]	61·04
		Ramchandrapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·16	
		Nasirnagar	...	...	...	...	...	...	...	Nil	Nil	0·25	?	[illegible]	?
		Daudkandi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
		Kasba	...	...	...	...	...	...	...	Nil	Nil	0·32	?	[illegible]	?
		Laksham	...	...	...	...	...	...	...	Nil	Nil	Nil	?	78·0[illegible]	?
	Mymensingh	Kishoreganj	...	...	...	...	...	0·04	...	1	0·04	0·60	0·54	[illegible]	70·03
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	0·72	[illegible]	[illegible]	[illegible]·32
		Mymensingh	...	...	...	...	...	0·08	...	1	0·08	[illegible]	[illegible]	[illegible]	73·80
		Jamalpore	...	...	...	...	...	...	0·11	1	[illegible]	0·26	[illegible]	[illegible]	65·15
		Netrokona	...	...	...	...	...	0·12	...	1	0·12	0·12	0·07	[illegible]	71·72
		Subornakhali	...	...	...	...	...	0·08	...	1	0·08	1·08	?	[illegible]	?
		[illegible]pore	...	...	...	...	...	0·[illegible]	...	1	[illegible]	[illegible]	?	[illegible]·21	?
		Sherepore town	...	...	...	...	...	0·07	...	1	0·07	0·17	?	[illegible]	?
		Dewanganj	...	...	...	...	...	...	...	Nil	Nil	0·42	?	55·14	?
NORTH BENGAL	Pubna	Pubna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	[illegible]	53·76
		Serajgunge	...	...	...	...	...	...	0·09	1	0·09	1·79	0·32	[illegible]	[illegible]
	Bogra	Sherpore	...	...	...	...	...	0·05	...	1	0·05	[illegible]	[illegible]	41·89	57·75
		Nowkhilla	...	...	...	...	...	0·1[illegible]	...	1	0·10	[illegible]	[illegible]	49·1[illegible]	54·67
		Bogra	...	...	...	...	...	0·0[illegible]	...	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Paunbibi	...	...	...	...	...	...	...	Nil	Nil	0·2[illegible]	[illegible]	[illegible]	[illegible]
	Rajshahye	Beauleah	...	...	...	...	...	0·13	...	1	0·13	0·51	[illegible]	[illegible]	52·88
		Nattore	...	...	...	...	...	0·2[illegible]	...	1	0·20	[illegible]	[illegible]	[illegible]	61·95
		Naogaon	...	...	...	...	...	0·10	...	1	0·10	[illegible]	?	[illegible]	?
		Lalpur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
		Manda	...	...	...	...	...	0·08	...	1	0·08	0·60	?	[illegible]	?
	Maldah	Maldah	...	...	...	...	...	0·05	...	1	0·05	[illegible]	[illegible]	[illegible]	51·61
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	[illegible]	0·11	[illegible]	[illegible]
		Gajol	...	...	...	...	...	...	...	Nil	Nil	0·01	?	[illegible]	?
		Sibganj	...	...	...	...	...	0·10	...	1	0·10	[illegible]	?	[illegible]	?
	Dinagepore	Dinagepore	...	...	...	...	...	0·08	...	1	0·08	[illegible]	[illegible]	[illegible]	[illegible]·32
		Churamon	...	...	...	...	...	0·0[illegible]	...	1	0·06	[illegible]	[illegible]	[illegible]	[illegible]·10
		Raiganj	...	...	...	...	...	0·06	...	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Pattiram	...	...	...	...	...	...	...	Nil	Nil	0·06	[illegible]	[illegible]	[illegible]
		[illegible]	...	...	...	...	...	0·05	...	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]·32
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	Rungpore	Bhowanigunge (*Gyubandha*)	...	...	...	...	...	...	...	Nil	Nil	0·18	[illegible]	45[illegible]	61·[illegible]
		Rungpore	...	...	...	...	...	0·01	...	1	0·01	0·26	[illegible]	[illegible]	[illegible]
		Kurigram	...	...	...	...	...	...	...	Nil	Nil	0·12	[illegible]	[illegible]	[illegible]
		Bardoha	...	...	...	...	...	...	...	Nil	Nil	0·18	[illegible]	[illegible]	[illegible]
		(*Nilphamari*) *Ulipore*	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	Julpigoree	Julpigoree	...	...	...	...	...	0·06	0·40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	117·[illegible]
		Alipore Duar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
		Fallacotta	...	...	...	...	...	...	0·1[illegible]	1	0·19	0·19	?	[illegible]	?
		Debiganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	92·86
		Cooch Behar	...	...	...	...	...	...	0·0[illegible]	1	0·0[illegible]	[illegible]	[illegible]	[illegible]	118·40
		Mekligunge	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	[illegible]
		Mathabhanga	...	...	...	...	...	...	0·02	1	0·02	0·02	0·22	[illegible]	116·[illegible]
	Darjeeling Hill	Buxa	...	...	...	...	...	0·21	0·17	2	0·38	[illegible]	[illegible]	[illegible]	192·[illegible]
		Siliguri	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	[illegible]
		Darjeeling	...	...	...	...	...	0·45	0·06	2	0·51	0·51	[illegible]	[illegible]	[illegible]
		Kalimpong	...	...	...	...	...	0·[illegible]	0·01	2	0·42	0·42	[illegible]	[illegible]	[illegible]·00
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	70·[illegible]7
		Araria	...	...	...	...	...	...	...	Nil	Nil	Nil	[illegible]	[illegible]	[illegible]
		Purneah	...	...	...	...	...	...	...	Nil	Nil	0·[illegible]	0·66	[illegible]	61·32
		Gondwara	...	...	...	...	...	...	...	Nil	Nil	0·18	?		?
		Banarampore	...	...	...	...	...	...	...	Nil	Nil	0·1[illegible]	?		?
		Manihari	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
		Kaliaganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	North Bhagulpore	Madhipoora	...	...	...	...	...	0·0[illegible]	...	1	0·0[illegible]	[illegible]	[illegible]	[illegible]	49·[illegible]
		Soopool	...	...	...	...	...	0·06	...	1	0·06	0·10	0·01	[illegible]	[illegible]·21
		Protabganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	[illegible]	?
	Durbhunga	Tajpore	...	...	...	...	...	0·0[illegible]	...	1	0·05	0·30	[illegible]	40·[illegible]	43·11
		Durbhunga	0·10	...	...	...	...	[illegible]	...	2	0·21	0·21	[illegible]	[illegible]	[illegible]
		Madhubani	...	...	...	...	...	0·1[illegible]	...	1	[illegible]	0·1[illegible]	[illegible]	[illegible]	[illegible]
		Bahera	...	...	...	...	...	0·07	...	1	0·07	[illegible]	?	[illegible]	?
		Rosnera	...	...	...	...	...	[illegible]	...	1	0·10	0·40	?	[illegible]	?
	Mozufferpore	Sitamarhi	...	...	...	...	...	[illegible]	...	1	0·15	0·18	[illegible]	[illegible]	4[illegible]·00
		Mozufferpore	...	...	...	...	...	[illegible]	...	1	0·15	[illegible]	[illegible]	[illegible]	[illegible]
		Hajipore	0·05	...	...	...	...	[illegible]	...	2	0·16	0·16	[illegible]	[illegible]	[illegible]
		[illegible]	...	...	...	...	...	[illegible]	...	1	[illegible]	[illegible]	?	[illegible]	?
		[illegible]	...	...	...	...	...	0·60	...	1	[illegible]	0·60	?	[illegible]	?
		Sonbarsa	...	...	...	...	...	...	...						
		Pupri	...	...	...	...	...	0·17	...	1	0·17	0·17	?	2[illegible]	
	Chumparun	Motihari	...	...	...	...	...	[illegible]	...	1	0·2[illegible]	[illegible]	0·16	[illegible]	4[illegible]
		Bettiah	...	...	...	...	...	[illegible]	...	1	[illegible]	[illegible]	0·31	[illegible]	[illegible]
		Bagaha	...	...	...	...	...	[illegible]	...	1	[illegible]	[illegible]	?	[illegible]	?
		Burhurwa	...	...	...	...	...	[illegible]	...	1	[illegible]	0·11	?	[illegible]	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 25th of January 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 19th January 1889.	Sunday, 20th January.	Monday, 21st January.	Tuesday, 22nd January.	Wednesday, 23rd January.	Thursday, 24th January.	Friday, 25th January.	Total. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge ...	...	...	...	...	...	0·53	...	1	0·53	0·53	0·26	36·53	43·74
		Sewan ...	...	...	...	...	...	0·45	...	1	0·45	0·93	0·55	41·51	43·79
		Chuprah ...	0·14	...	...	...	...	0·22	...	2	0·36	0·46	0·49	36·15	40·64
SOUTH BEHAR	Shahabad	Buxar ...	0·05	...	...	...	...	0·30	...	2	0·35	0·35	0·65	41·09	38·44
		Dehree ...	...	...	...	...	...	0·13	...	1	0·13	0·13	0·73	43·61	39·70
		Bhubooah ...	...	...	...	...	...	0·30	...	1	0·30	0·40	0·64	40·57	41·87
		Sasseram ...	...	...	...	...	...	0·20	...	1	0·20	0·20	0·40	41·93	40·58
		Arrah ...	0·02	...	...	...	...	0·12	...	2	0·14	0·19	0·51	43·63	40·16
		Mohania ...	...	...	...	...	...	...	...				?		?
	Gya ...	Aurungabad ...	...	...	...	...	...	0·08	...	1	0·08	0·08	0·40	53·40	42·74
		Gya ...	...	...	...	...	...	0·05	...	1	0·05	0·05	0·42	51·41	43·50
		Nowadah ...	...	...	...	...	...	0·09	...	1	0·09	0·27	0·60	48·12	40·01
		Jehanabad ...	...	...	...	...	...	0·06	...	1	0·06	0·11	0·51	45·40	40·49
		Arwal ...	...	...	...	...	...	0·19	...	1	0·19	0·19	?	37·78	?
		Daudnagar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42[illegible]	?
		Sherghati ...	...	...	...	...	...	0·11	...	1	0·11	0·21	?	33[illegible]	?
		Rajauli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	27·05	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	33·66	?
	Patna ...	Patna ...	0·05	...	...	...	...	0·08	...	2	0·13	0·17	0·45	39·79	41·85
		Dinapore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	41·70	41·44
		Behar ...	...	...	...	...	...	0·07	...	1	0·07	0·07	0·52	52·02	41·85
		Barh ...	...	...	...	...	...	...	...	Nil	Nil	0·28	0·35	53·85	39·70
		Bickram ...	...	...	...	...	...	...	...	Nil	Nil	Nil		38·00	
		Hilsa ...	...	...	...	...	...	0·02	...	1	0·02	0·02		45·83	?
	Monghyr	Begoosarai ...	...	...	...	...	...	...	...	Nil	Nil	0·24	0·46	46·31	40·07
		Monghyr ...	...	...	...	...	...	0·02	...	1	0·02	0·16	0·35	53·77	46·37
		Jamui ...	...	...	...	...	...	0·07	...	1	0·07	0·34	0·40	49·15	42·89
		Gogri ...	...	...	...	...	...	...	...	Nil	Nil	0·32	?	58·91	?
		Sheikpura ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·18	?
	South Bhagulpore	Bhagulpore ...	...	...	...	...	...	...	...	Nil	Nil	0·37	0·32	53·37	42·05
		Banka ...	...	...	...	...	...	0·13	...	1	0·13	0·23	0·40	40·11	44·62
		Kolgong ...	...	...	...	...	...	...	...	Nil	Nil	0·19	?	50·57	?
	Sonthal Pergunnahs	Rajmehal ...	...	...	...	...	...	0·12	...	1	0·12	0·58	0·41	46·14	51·97
		Godda ...	...	...	...	...	...	0·20	...	1	0·20	0·20	0·28	47·84	45·09
		Pakour ...	...	...	...	...	...	0·08	...	1	0·08	0·08	0·21	61·01	55·[illegible]
		Nya Doomka ...	...	...	...	...	...	0·11	...	1	0·11	0·30	0·50	51·?7	53·18
		Deoghur ...	...	...	...	...	...	0·11	...	1	0·11	0·11	0·37	52·00	50·08
		Jamtara ...	...	...	...	...	...	...	...	Nil	Nil	0·30	0·56	5?·81	48·19
		Mohagama ...	...	...	...	...	...	...	...	Nil	Nil	0·06		?	?
		Nanaut ...	...	...	...	...	...	...	...	Nil	Nil	Nil		28·22	
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	0·21	...	1	0·21	0·21	0·27	55·63	47·35
		Hazaribagh ...	...	...	...	...	...	0·08	...	1	0·08	0·24	0·45	54·76	47·93
		Sumtagurah ...	...	...	...	...	...	0·10	...	1	0·10	0·57	0·40	55·40	45·00
		Mahuda Hills											0·66		48·24
		Jhoomra Hills											0·58		62·34
		Barhi ...	...	...	...	...	...	0·15	...	1	0·15	0·58	?	50·23	?
		Chatra ...	...	...	...	...	...	0·15	...	1	0·15	0·25	?	54·10	?
		Karagdeha ...	...	...	...	...	...	...	...	Nil	Nil	0·10	?	61·93	?
		Ramghur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·33	?
	Lohardugga ...	Lohardugga ...	...	...	...	...	...	0·07	...	1	0·07	0·07	1·05	46·54	52·56
		Ranchi ...	...	...	...	...	...	0·05	...	1	0·05	0·07	0·51	52·89	51·99
		Palamow ...	...	...	...	...	...	0·35	...	1	0·35	0·64	0·56	52·09	43·15
		Silli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Bulumat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·42	?
		Hossenabad ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Gurwah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·68	?
	Singbhoom	Chyebassa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·48	40·44	51·47
		Chukradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·95	?
		Ghatsilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·39	?
		Bahoragora ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·55	?
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	Nil	Nil	0·12	0·34	56·63	48·83
		Gobindpore ...	...	...	...	...	...	...	...	Nil	Nil	0·12	0·42	36·30	44·97
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	0·09	?	52·59	?
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·64	?
		Jhalda ...													
		Chas ...													

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 29th January* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 25TH JANUARY 1889.

THE meteorological conditions in Bengal at the end of the previous week were very abnormal from the fact that temperature was excessive, while humidity was also high, and the most important weather changes during the present week have been—first, the reduction of temperature in Bengal, in some districts of which an excess of 7° continued during the two first days of the week; second, the decrease of humidity reported on Sunday, the 20th, especially in South Bengal with the renewal of northerly winds; and third, the changes consequent on the extension towards the end of the week to Behar, South Bengal, and Orissa, of two disturbances which had formed in Central and Northern India.

On Saturday, the 19th, a few showers fell in Behar, but the skies were everywhere rapidly clearing, and fine weather became general over the whole of the province. Temperature was still abnormally high, and southerly winds recommenced at the head of the Bay, in consequence of the low-pressure area which prevailed over North Bengal. This low-pressure area filled up, however, on the following day, and northerly winds returned over South Bengal and the Bay, and these caused a large reduction of humidity, though the temperature still remained rather high, specially in the southern districts. The excess temperature was generally largest during the day, and when the high temperature began to give way, the change was greatest in the night temperatures. On the 21st pressure increased rapidly in South Bengal and Orissa, and was accompanied by a large reduction of temperature, the fall amounting in some cases to almost 10°. From the 21st to the 24th fine weather prevailed in all districts, until the fall of the barometer and increase of humidity in Orissa and Behar were caused by the eastward movement of the disturbances in Central and Northern India. During these days the pressure and temperature were falling in South-West Bengal and Orissa, giving a slightly defective temperature in the western parts of these districts. On the 24th pressure continued falling in Orissa, due to the easterly movement of the depression which had formed in Central India but rose elsewhere, and a low-pressure area became distinctly marked over Orissa and part of South-West Bengal. This affected the weather in Bengal on Thursday, giving cloudy weather and slight showers. The disturbance rapidly passed away, and had almost ceased to exist on Friday, the 25th. The few showers and humid cloudy weather which obtained in Behar on Thursday were caused by the eastward passage of the second depression which had formed in Northern India, but its influence also rapidly disappeared, and with the rising pressure on Thursday fine weather was quickly restored, and ordinary north-east monsoon conditions obtained generally at the end of the week.

Pressure.—Pressure was almost normal at the beginning of the week, and for the first two days only small irregular changes took place, without sensibly altering the variation from the normal at the different stations. On Monday, the 21st, a general, and in some districts a rapid, rise occurred, giving everywhere an excess. The rise was most rapid in Behar, North Bengal and Assam, the greatest change of over one-tenth of an inch being at Purneah. This was partly removed on the following day, when there was a general fall, largest in Behar, where it averaged about ·05." On Wednesday the fall continued with great rapidity in Orissa and the western districts of the Province, in connection with the low-pressure areas which had formed in Central India and the Punjab, both of which moved eastward On Thursday the low pressure over Orissa and the north-west corner of the Bay intensified, and was made more decided by a rise elsewhere, especially towards the east. The depression rapidly filled up, a general rise being reported on Friday, especially in Orissa and South-West Bengal. The important changes during the week were therefore the rise on Monday, the fall on Tuesday and Wednesday, and the filling up of the Orissa low-pressure area. The changes were otherwise irregular, and the normal pressure conditions with which the week opened were almost restored at the close, though the average pressure for the week was slightly higher than the normal.

Temperature.—Notwithstanding the rapid fall of temperature which took place in the early part of the week, the average mean temperature for the Province has been about 3° above the normal, the excess being strongly marked in Orissa and Chutia Nagpur, where it has equalled from 4° to 5°

The general range and distribution of temperature for the week and its variation from the normal is shown in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in the Province are compared with the normal

values for the same period. In both day and night readings it will be seen that temperature has been considerably in excess :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 25th of January 1889.

	Normal mean maximum temperature for the week ending 25th January.	Actual mean maximum temperature for the week ending 25th January 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 25th January.	Actual mean minimum temperature for the week ending 25th January 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 25th January.	Actual mean daily temperature for the week ending 25th January 1889.	Variation of actual mean from the normal.
Cuttack	85·3	90·2	+4·9	60·5	64·6	+4·1	72·9	77·4	+4·5
Calcutta	77 3	80 3	+3·0	54·9	58 1	+3·2	66 1	69·2	+3·1
Dacca	77·2	81·9	+4·7	55·2	56 9	+1·7	66·2	69·4	+3·2
Burdwan	77·4	82·7	+5·3	54 5	55·9	+1·4	65 9	69·3	+3·4
Patna	73·5	76·1	+2 6	49·7	52 4	+2·7	61·6	64·3	+2·7
Gya	76 2	80 3	+4·1	51·5	54 6	+3·1	63·8	67·5	+3 7
Purneah	75·3	77·7	+2·4	47·4	50·4	+3·0	61·4	64·1	+2·7
Hazaribagh	73·4	77·4	+4·0	50·6	53 0	+2 4	62·0	65·2	+3·2
Darjeeling	44·7	48·4	+3 7	34·0	37·0	+3·0	39·4	42 7	+3·3

Rainfall —The average rainfall in North Bengal, Behar, and Chutia Nagpur for the week has been between a tenth and a fifth of an inch ; elsewhere it has been practically rainless. The largest falls have actually occurred in the Sarun, Darjeeling, Jupigooree, Cooch Behar, and Shahabad districts ; but even here the falls have averaged considerably less than half an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of January 1889 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa . .	92 4	54·0	85·3	63·7	74·5	+4·5	Nil	0·06	—0·06	0·0	0·3	—0·3	Nil	0·18	50·48	53·28
South-West Bengal	91·3	46·4	82·0	56·6	69 3	+3·5	0·01	0·12	—0·11	0·1	0 4	—0·3	0 07	0·32	54·59	51 86
East Bengal ...	86 1	48·8	78·4	55 2	66·8	+2·3	0·01	0·16	—0·15	0·1	0 5	—0·4	0·11	0·40	70·68	74·15
North Bengal ..	84 3	46 0	76·1	52·2	64 2	+1·9	0·10	0·17	—0·07	0·7	0·5	+0·2	0 39	0·32	53 58	70 34
North Behar ..	79·7	47·5	70·6	52·7	61·7	+0·2	0·17	0·20	—0·03	1·0	0·6	+0·4	0·30	0·44	41·91	48·62
South Behar .	85·3	46·4	77·9	53·0	65·5	+3·7	0·10	0·20	—0·10	1·0	0·5	+0 5	0 22	0·44	48 41	43·74
Chutia Nagpur ..	83·0*	48·4*	78·6*	52·9*	65 8*	+4·3*	0·11	0·22	—0·11	0·7	0·5	+0·2	0·27	0·52	50·44	49 43

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 29th January 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 20th to 26th January 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan.	20th	137·5	9·7	30·033	71·5	82·2	18·3	63·9	63·5	0·479	57·8	64	N by W and NW	88	Nil	Chiefly clear ⩍.
,,	21st	133·0	9·0	·079	66·1	78·2	23·7	54·5	57 9	·375	51·0	61	NNW and calm ..	51	,,	Chiefly clear, ⩍, ≡
,,	22nd	133·8	9·5	·037	64·7	77 7	24·1	53 6	56·8	·358	49·8	62	NW by N and calm	49	,,	Clear, ⩍.
,,	23rd	133·5	7·5	29·966	65·1	78·5	24·4	54 1	59·6	·442	55·5	74	WNW and W ...	26	,,	Clear, ≡ .. ⩍.
,,	24th	126·3	3·5	·098	67·9	76·6	17·8	58·8	63·4	·527	60·4	79	NNE calm and variable.	42	0·01	Chiefly cloudy o, d, g, ≡, ⩍.
,,	25th	129·5	8·7	30·064	67 8	77·9	18·6	59 3	62·0	·482	57·9	72	NNE and calm ...	42	Nil	Chiefly clear, ⩍, ≡
,,	26th	132·0	9·6	·124	66·8	78 5	21 2	57 3	59·5	·414	53 7	63	NE by E and calm...	41	,,	Clear, ⩍.

	Inches.
The mean pressure of the seven days	30·043
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	30·003
	Hours
The total number of hours of bright sunshine	57·5
The maximum possible number of hours of sunshine	76·7
	°
The mean temperature of the seven days	67·1
The average temperature of the corresponding period for 24 years, S. G.'s Office	68·4
The extreme variation of temperature	28 6
The maximum temperature	82 2
	Miles
The highest velocity of the wind in one hour	12
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	68
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	70
	Inches.
The total fall of rain from 20th to 26th January 1889 ...	0·01
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·08
The total fall from 1st to 26th January 1889	0 01
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, ≡ fog, ⩍ dew.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 28th January 1889.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th January 1889.

Month.	Date.	Temperature. Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Hygrometry. Vapour tension.	Dew point.	Humidity.	Rain.
1889		°	°	°	°	°	Inches.	°	%	Inches.
January ...	20th	73 1	83 9	20·5	63·4	63 4	·455	56·3	56	
" ...	21st	67 6	79 1	23·7	55·4	58·8	·381	51 4	57	
" ...	22nd	66·3	79·4	26·1	53·3	57·0	·314	48·6	53	
" ...	23rd	66·5	80 3	25 4	54·9	61 5	·481	57·9	74	
" ...	24th	68·6	78 9	19·8	59·1	61·5	·554	61·9	79	0 02
" ...	25th	68·9	79·1	19 2	59·9	63·0	·498	58·9	70	
" ...	26th	68·6	80·4	22·7	57·7	60·7	·427	54·5	61	

	°
The mean temperature of the seven days	68·5
The extreme variation of temperature	30·6
The maximum temperature	83·9
	%
The mean relative humidity	64
	Inches.
The total fall of rain from 20th to 26th January 1889	0 02

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;
The 28th January 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE mortuary statistics of the districts in Bengal for the month of November 1888 present the following results:—

1. The deaths of 140,186 persons were registered among a population of 66,055,695, representing an annual death-rate of 25·44 per 1,000, against 27·12 per 1,000 in the preceding month, and 26·76 per 1,000 in the corresponding month of 1887, indicating, as compared with both the past periods, a large decrease in mortality.

2. The following districts returned the highest proportions of deaths:—

Districts.	Ratio per mille.	*Districts.*	Ratio per mille.
Maldah	70·32	Rungpore	31·56
Shahabad	39·48	Hazaribagh	30·36
Julpaiguri	35·64	Serampore	29·76
Murshedabad	33·48	Noakhali	29 04
Gya	33·48	Nuddea	28 92
Purneah	33·36	Darjiling	28·32
Jessore	33 24	Backerganj	27·96
Dinajpur	33 12	Hughli	27 84
Khulna	32 76	Pubna	27 84
24-Pergunnahs	32 52	Rajshahye	26 64
Monghyr	32·04	Tipperah	26 52
Bhagulpore	32·04	Bogra	25 44

3. The mortality from the principal diseases under record stood, during the month under review, contrasted with similar information for the corresponding month of the preceding year, as follows:—

	Ratio per mille during— November 1888.	
	November 1888.	November 1887.
Cholera	1·32	·48
Small-pox	·03	·02
Fever	19 56	21·48
Bowel-complaints	·60	·72
Injury	·01	·12
Other causes	3·48	3 60

The only noticeable fact disclosed by the above comparison is that the death-rate from fever was considerably lower in November 1888 than in November 1887.

4. The undermentioned districts suffered pre-eminently from cholera, fever and the maladies classed under the head of "Other causes." The other diseases (indicated in the above table) exhibit no noticeable fluctuation:—

Cholera.

	Ratio per mille.
Maldah	27·48
Monghyr	9 84
Suburbs of Calcutta	5·88
Serampore	4 56
Murshedabad	3 96
Jessore	3·84
Howrah	3·12
Nuddea	3·12
Hughli	2 52

Fever.

	Ratio per mille.
Maldah	41 04
Shahabad	33 24
Julpaiguri	32 76
Dinajpur	31·08
Purneah	30·48
Rungpore	29 52
Gya	29 28
Jessore	27·36
Murshedabad	27 00
Hazaribagh	26 64
Khulna	26 04
Bhagulpore	26 04
Monghyr	25 44
Noakhali	24 12
Pubna	23 88
Rajshahye	22 80
Nuddea	22 56
Darjiling	21 62
Bogra	20 28
24-Pergunnahs	20·16

Other causes.

	Ratio per mille.
Puri	10 56
Backerganj	9 36
Tipperah	8·16

5. In relation to *Sex, Class* and *Age*, the death-rates during the month under notice stood as follows:—

According to Sex.

	Ratio per mille.
Males	27·00
Females	23·88
Ratio of male deaths to every 100 female deaths	111

According to Class.

	Ratio per mille.
Christians	15·48
Hindus	24·84
Mahomedans	27·12
Buddhists	15 84
Other classes	18·60

According to Age.

	Ratio per mille.
Under 1 year	172·32
1 and under 5 years	28 68
5 " 10 "	14 40
10 " 15 "	11 88
15 " 20 "	15 96
20 " 30 "	15·96
30 " 40 "	17·52
40 " 50 "	23·88
50 " 60 "	35·04
60 years and upwards	64·68

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 25*th January* 1889.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of November 1888

Columns 1–4: Population and Mortality according to Disease — Deaths from

Divisions (1)	Districts (2)	Population (3): Males	Population: Females	Population: Total	Deaths from (4): Cholera	Small-pox	Fevers	Bowel-complaints	Injury	Other diseases	All causes
BURDWAN	Burdwan	668,295	723,528	1,391,823	39	6	1,314	48	17	371	2,295
	Bankura	507,136	534,616	1,041,752	39	3	1,085	33	12	260	1,432
	Birbhum	381,563	412,865	794,428	36	..	1,222	15	10	354	1,637
	Midnapore	1,243,195	1,272,370	2,515,565	171	1	3,652	225	47	685	4,781
	Hughli	315,[illegible]	347,385	66[illegible],050	143		1,074	119	23	180	1,539
	Serampore	174,366	177,589	351,955	137		451	113	11	132	874
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	2[illegible]	..	1,555	232	34	312	2,413
	Howrah	316,479	318,902	675,381	167	2	606	240	32	230	1,277
PRESIDENCY	24-Pergunnahs	975,450	894,429	1,869,879	918	.....	3,143	378	59	588	5,096
	Nuddea	805,779	849,942	1,655,721	445	3	3,115	15	39	377	3,994
	Jessore	959,271	950,104	1,9[illegible]75	627	.	4,430	12	53	262	5,374
	Murshidabad	586,483	640,307	1,226,790	413	.	2,765	21	12	214	3,425
	Khulna	568,402	511,546	1,079,948	169	.	2,251	21	26	389	2,956
RAJSHAHYE	Dinajpur	782,292	732,054	1,514,346	81	.	3,932	12	20	147	4,192
	Rajshahye	660,226	678,412	1,339,638	224	.	2,555	10	34	157	2,980
	Rungpore	1,067,701	1,030,263	2,097,961	45	....	5,162	11	30	286	5,534
	Bogra	372,677	361,681	734,358	167	....	1,247	7	10	156	1,557
	Pubna	648,311	663,417	1,311,728	216	..	2,620	24	9	181	3,050
	Darjiling	89,395	66,759	156,137	.....	.	284	33	2	51	370
	Jalpaiguri	305,555	276,007	581,562	15	1	1,592	3	3	115	1,729
DACCA	Dacca	1,033,863	1,082,487	2,116,350	151	1	2,567	174	22	603	3,518
	Faridpore	805,989	825,745	1,631,731	81	3	2,217	37	28	382	2,748
	Backergunj	973,479	927,410	1,900,889	91	29	2,722	51	66	1,501	4,4[illegible]1
	Mymensing	1,553,397	1,498,569	3,051,966	28	44	4,116	143	43	674	5,005
CHITTAGONG	Chittagong	531,649	600,692	1,132,341	13	.	1,497	91	57	180	1,838
	Noakhali	415,248	405,524	820,772	8	.	1,653	59	29	257	1,957
	Tipperah	770,893	748,445	1,519,338	26	12	2,195	75	28	1,047	3,363
PATNA	Patna	858,783	898,073	1,75[illegible],856	123	7	2,890	158	48	577	3,803
	Gya	1,043,441	1,081,241	2,124,682	51	18	5,191	70	54	561	5,945
	Shahabad	950,250	1,014,659	1,964,909	82	2	5,451	78	55	797	6,465
	Mozufferpore	1,265,731	1,316,329	2,582,060	81	2	2,828	110	43	436	3,540
	Durbhanga	1,295,788	1,337,659	2,633,447	66	.. ...	2,683	98	22	202	3,071
	Sarun	1,093,565	1,196,817	2,280,382	5	10	1,440	205	64	1,342	3,077
	Chumparun	870,627	850,981	1,721,608	18	21	2,703	14	29	573	3,418
BHAGULPORE	Monghyr	969,124	1,000,650	1,969,774	250	2	4,194	40	48	739	5,273
	Bhagulpore	979,119	987,039	1,966,158	310	.....	4,271	68	37	509	5,205
	Purneah	937,080	911,607	1,848,687	313	4	4,707	7	8	113	5,152
	Maldah	346,998	363,450	710,448	1,029	......	2,431	9	9	88	4,166
	Sonthal Pergunnahs	785,330	782,763	1,568,093	167	.....	1,382	33	18	188	1,788
ORISSA	Cuttack	877,702	917,363	1,795,065	80	3	1,047	231	47	660	2,065
	Puri	446,609	441,878	888,487	17	22	221	156	37	789	1,212
	Balasore	461,461	483,819	945,280	12	6	480	308	21	573	1,400
CHOTA NAGPORE	Hazaribagh	544,903	559,839	1,104,742	11	7	2,462	60	26	244	2,800
	Lohardugga	796,657	812,587	1,609,244	.....	... ..	2,323	153	23	518	3,017
	Singbhum	226,681	227,094	453,775	20	...	549	45	13	112	739
	Manbhum	525,328	532,900	1,058,228	32	6	946	56	11	172	1,223
	TOTAL FOR THE PROVINCE	32,777,919	33,277,776	66,055,695	7,667	213	108,026	3,504	1,315	19,162	140,156

Columns 5–6: Ratio per 1,000 of population per annum, and Comparison with previous periods

Districts	Cholera (5)	Small-pox	Fevers	Bowel-complaints	Injury	Other diseases	All causes	Ratio of deaths per 1,000 of population per annum in the previous month (6)	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year
Burdwan	·24	·04	15·60	·36	·12	3·12	19·68	21·00	24·48
Bankura	·36	·02	12·48	·36	·12	2·88	16·44	17·88	18·84
Birbhum	·48	......	18·36	·12	·12	5·28	24·72	24·96	30·12
Midnapore	·72	·003	17·40	·96	·12	3·24	22·80	25·44	26·28
Hughli	2·52	......	19·32	2·04	·36	3·24	27·84	21·48	28·08
Serampore	4·56	.	16·32	3·84	·36	4·44	29·76	25·20	23·64
Total (Hughli including Serampore)	3·24	.. ..	18·36	2·64	·36	3·60	28·44	24·72	26·32
Howrah	3·12	·03	11·40	4·44	·60	4·32	24·00	27·24	28·32
24-Pergunnahs	5·88	...	20·16	2·40	·36	3·72	33·52	28·20	32·88
Nuddea	3·12	·01	22·56	·10	·24	2·64	28·92	25·32	44·88
Jessore	3·84	... ..	27·36	·12	·12	1·56	33·24	24·12	29·04
Murshidabad	3·96	....	27·00	·12	·10	2·04	33·48	28·20	46·44
Khulna	1·80	. . ..	26·04	·12	·24	4·32	32·76	27·84	32·28
Dinajpur	·60	... ..	31·08	·08	·12	1·08	33·12	31·08	40·08
Rajshahye	1·92	... .	22·80	·08	·24	1·32	26·64	26·04	43·08
Rungpore	·24	..	29·52	·06	·12	1·56	31·56	24·12	38·16
Bogra	1·68	... .	20·28	·10	·12	3·00	25·44	24·96	34·20
Pubna	1·92	.... .	23·88	·12	·07	1·56	27·84	23·16	3[illegible]·33
Darjiling	..	..	21·62	2·52	·12	3·84	28·32	30·12	23·04
Jalpaiguri	·24	·01	32·76	·06	·06	2·28	35·64	38·52	36·36
Dacca	·84	·004	14·52	·96	·12	5·04	21·60	21·60	24·72
Faridpore	·48	·01	16·20	·24	·12	2·76	20·16	19·32	13·08
Backergunj	·48	·12	17·16	·24	·24	9·36	27·96	25·32	36·72
Mymensing	·10	·12	16·08	·36	·12	2·64	19·56	18·60	18·36
Chittagong	·12	... ..	15·84	·96	·60	1·80	19·44	20·40	17·16
Noakhali	·10	. ...	24·12	·36	·36	3·84	29·04	25·56	23·28
Tipperah	·12	·08	17·04	·48	·24	8·16	26·52	19·20	21·84
Patna	·84	·03	16·32	·96	·24	3·84	22·56	33·60	21·12
Gya	·24	·09	29·28	·36	·03	3·12	33·48	55·32	26·04
Shahabad	·48	·12	33·24	·36	·24	4·80	39·48	57·96	27·72
Mozufferpore	·36	·008	13·08	·48	·12	1·92	16·20	24·84	11·04
Durbhanga	·24	...	12·12	·36	·09	·84	13·92	16·80	15·96
Sarun	·02	·08	7·56	·96	·36	7·08	16·08	22·92	17·88
Chumparun	·12	·12	19·20	·09	·12	3·96	23·76	24·12	20·88
Monghyr	9·84	·01	25·44	·24	·24	4·44	32·04	40·56	40·08
Bhagulpore	1·92	.. ..	26·04	·36	·12	3·36	32·04	34·68	33·00
Purneah	1·92	·03	30·48	·03	·04	·72	33·33	26·88	32·64
Maldah	27·48	.. .	41·04	·12	·12	1·44	70·32	40·08	53·64
Sonthal Pergunnahs	1·20		10·56	·24	·12	1·32	13·68	14·88	14·40
Cuttack	·48	·01	6·96	1·44	·24	4·32	13·80	18·24	19·56
Puri	·12	·24	2·88	2·04	·48	10·56	16·68	18·24	23·40
Balasore	·12	·07	8·52	3·84	·24	4·65	17·76	22·20	23·16
Hazaribagh	·10	·07	26·64	·48	·24	2·64	30·36	39·60	20·28
Lohardugga	..	... ..	17·28	1·08	·12	3·84	23·44	37·92	21·24
Singbhum	·48	..	14·40	1·08	·24	2·88	19·44	23·16	16·92
Manbhum	·36	·06	10·68	·60	·13	1·92	13·80	13·84	15·12
TOTAL FOR THE PROVINCE	1·32	·03	19·56	·60	·01	3·48	25·44	27·12	26·76

Columns 7–9: Mortality according to Sex

Districts	Deaths among (7): Males	Deaths among: Females	Ratio per 1,000 of population per annum (8): Males	Ratio per 1,000: Females	Ratio of male deaths to every 100 female deaths (9)
Burdwan	1,233	1,056	22·20	17·40	117
Bankura	761	671	18·00	15·00	113
Birbhum	820	817	25·68	23·64	100
Midnapore	2,128	2,353	23·40	22·08	103
Hughli	812	727	30·48	25·44	108
Serampore	479	395	32·88	26·04	121
Total (Hughli including Serampore)	1,281	1,132	31·32	25·80	113
Howrah	720	557	27·24	21·00	129
24-Pergunnahs	2,811	2,275	34·56	30·48	123
Nuddea	2,051	1,943	30·48	27·36	105
Jessore	2,825	2,549	35·25	31·20	111
Murshidabad	1,726	1,699	35·28	31·80	101
Khulna	1,472	1,484	30·96	34·80	99
Dinajpur	2,200	1,992	33·72	32·64	110
Rajshahye	1,595	1,385	23·92	24·48	115
Rungpore	2,943	2,591	33·00	30·12	113
Bogra	839	718	27·00	23·76	116
Pubna	1,698	1,352	31·32	24·36	125
Darjiling	216	154	28·92	27·60	140
Jalpaiguri	978	751	38·40	32·64	130
Dacca	1,974	1,839	22·80	20·28	107
Faridpore	1,500	1,248	22·20	18·12	120
Backergunj	2,211	2,230	27·24	28·81	99
Mymensing	2,623	2,382	20·16	18·96	110
Chittagong	905	933	20·40	18·60	96
Noakhali	970	1,017	27·96	30·07	95
Tipperah	1,779	1,584	27·61	25·32	112
Patna	1,687	1,616	23·52	21·48	104
Gya	3,002	2,943	34·44	32·88	101
Shahabad	3,158	3,307	39·84	39·01	95
Mozufferpore	1,968	1,532	18·61	13·93	128
Durbhanga	1,654	1,417	15·24	12·80	116
Sarun	1,694	1,383	18·12	13·80	122
Chumparun	1,893	1,525	26·04	21·48	125
Monghyr	2,841	2,432	35·16	29·16	116
Bhagulpore	2,784	2,481	34·08	30·24	112
Purneah	2,697	2,455	34·44	32·28	109
Maldah	2,276	1,890	78·72	62·40	120
Sonthal Pergunnahs	1,009	779	15·36	11·88	129
Cuttack	1,132	933	15·36	12·12	114
Puri	652	590	17·40	15·96	110
Balasore	710	690	18·36	17·04	102
Hazaribagh	1,386	1,414	30·48	30·24	98
Lohardugga	1,592	1,425	23·88	21·00	111
Singbhum	388	351	20·52	18·48	110
Manbhum	683	540	15·60	13·12	126
TOTAL FOR THE PROVINCE	73,771	66,415	27·00	23·88	111

MORTALITY ACCORDING TO—

Class (10, 11)

Divisions	Districts	Deaths among— Christians	Deaths among— Hindus	Deaths among— Mahomedans	Deaths among— Budhists	Deaths among— Other classes	Ratio per 1,000 of population per annum. Christians	Ratio Hindus	Ratio Mahomedans	Ratio Buddhists	Ratio Other classes
Burdwan	Burdwan	1	1,872	422	......	.....	13·08	20·04	19·08	......	... ..
	Bankura	..	1,274	67	... ..	91		16·68	17·28		12·84
	Birbhum		1,341	288	.. ..	24		26·04	19·68	.	23·16
	Midnapore	..	4,271	287	.. .	225		22·02	20·76	. ..	22·92
	Hughli	.	1,201	338	.....	...		27·60	31·20	.. ..	.. ..
	Serampore	1	732	121	. ..	.	32·88	30·84	24·48		
	Total (Hughli, including Serampore)	1	1,933	459	. .		19·24	25·32	29·16		
Presidency	Howrah	..	1,045	232	... .	.. ...	. . .	24·96	21·66	. . .	... ..
	24-Pergunnahs	58	3,470	1,072		.. .	32·52	31·02	33·84	.	.
	Nuddea	22	1,547	2,375		.	41·04	26·28	30·84	. .	.
	Jessore	1	2,227	3,146			24·36	34·68	32·16	. .	.. ..
	Murshidabad	.	1,6[illegible]1	1,814				30·66	36·54	.	.. ..
	Khulna	2	1,[illegible]	1,051	.. .		32·04	3[illegible]·24	35·16	. .	.
Rajshahye	Dinajpur	..	1,852	2,337	.	3	.. .	31·96	35·16	.	24·72
	Rajshahye	.	683	2,297		...	.. .	28·32	26·16	. .	...
	Rungpore	..	1,988	3,544	..	2	.	29·16	33·12	... .	14·28
	Bogra	. .	293	1,204	..	.		24·96	25·56	......	... .
	Pubna	..	787	2,263	.		.	26·04	28·56	..	.
	Darjiling		324	33	11	2	..	30·60	48·24	6·96	37·44
	Jalpaiguri	...	1,66[illegible]	600	..	24		32·76	40·20	.	63·72
Dacca	Dacca	11	1,529	2,273	. ..	... ..	15·00	21·36	21·72	. ..	.. .
	Faridpore	7	1,687	1,614	.	..	30·60	20·76	20·16	.	... .
	Backergunj	6	1,1[illegible]8	5,297	.	.	19·32	21·84	31·20	. .	.
	Mymensing		1,747	3,4[illegible]	.	92		21·12	18·60	.	42·48
Chittagong	Chittagong	1	438	1,304	95	... .	11·28	19·08	19·44	21·00	... .
	Noakhali	2	508	1,587		..	40·80	22·56	31·20	.	. . ..
	Tipperah	. .	1,150	2,213	.	.	.. ..	27·06	26·28	. .	. .
Patna	Patna		2,[illegible]64	541	... .	. .	.	13·04	18·72	.. ..	.
	Gya		5,[illegible]74	571	.		..	35·03	20·40	.. ..	...
	Shahabad	.	[illegible]	410		.		30·96	3[illegible]·48	.. ...	... ..
	Mozufferpore		6,148	[illegible]	.	.	.	16·56	15·32	..	.
	Durbhunga		2,8[illegible]1	270	.			14·4[illegible]	10·32	.. ..	.
	Sarun		2,7[illegible]	3[illegible]	.			16·32	14·04	.	.
	Chumparun	4	[illegible]	445			24·72	24·12	21·96	.	..
Bhaugulpore	Monghyr	1	4,8[illegible]	4[illegible]	.	6	10·92	32·64	27·48		9·96
	Bhaugulpore		4,[illegible]	[illegible]			.	3[illegible]·48	21·60		
	Purneah	1	3,2[illegible]	1,946			56·60	55·64	37·24	. .	
	Maldah		[illegible]	1,[illegible]	.	4	.	7[illegible]·48	64·5[illegible]		[illegible]7·48
	Sonthal Pergunnahs		1,08[illegible]	152		553		13·24	16·68		10·8[illegible]
Orissa	Cuttack	2	2,611	42		. ..	10·20	15·52	8·04	..	.
	Puri	.	1,2[illegible]	18		.		16·8[illegible]	15·[illegible]	.	
	Balasore	1	1,[illegible]84	13	.	2	14·61	18·12	6·48		4·32
Chota Nagpore	Hazaribagh		2,407	[illegible]	.	1[illegible]4		31·20	2[illegible]	..	25·20
	Lohardugga	24	1,476	173		1,[illegible]24	9·24	21·28	[illegible]		2[illegible]·20
	Singhbhum	2	7[illegible]	4		1	7·92	19·[illegible]2	2[illegible]·52		18·48
	Manbhum	1	1,0[illegible]2	40		9[illegible]	21·72	1[illegible]·68	1[illegible]		18·60
	TOTAL FOR THE PROVINCE	1[illegible]2	58,[illegible]	48,[illegible]	10[illegible]	2,[illegible]	15·48	24·84	27·1[illegible]	10·84	18·60

Age (12, 13) — Deaths

Divisions	Districts	Under 1 year	1 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 20 years	20 and under 30 years	30 and under 40 years	40 and under 50 years	50 and under 60 years	60 years and upwards
Burdwan	Burdwan	361	210	151	93	138	310	264	239	194	332
	Bankura	247	133	97	72	83	180	165	138	110	207
	Birbhum	341	227	150	79	91	160	146	133	100	204
	Midnapore	844	484	317	184	237	486	540	484	425	807
	Hughli	234	179	98	77	85	195	174	165	138	214
	Serampore	138	108	56	34	57	116	100	96	61	103
	Total (Hughli, including Serampore)	372	267	154	111	142	311	274	261	198	323
Presidency	Howrah	197	169	196	60	70	145	126	110	68	227
	24-Pergunnahs	619	649	431	237	357	745	593	412	379	640
	Nuddea	650	608	531	268	219	334	306	303	277	500
	Jessore	584	672	725	369	342	509	500	405	345	693
	Murshidabad	418	558	426	231	184	343	308	318	249	395
	Khulna	402	432	247	108	172	380	306	248	168	433
Rajshahye	Dinajpur	613	741	378	212	232	572	510	364	254	326
	Rajshahye	323	444	403	182	183	341	348	270	175	269
	Rungpore	788	605	554	285	301	677	672	551	402	499
	Bogra	251	200	138	81	94	202	180	158	89	164
	Pubna	363	471	504	206	176	317	291	210	131	321
	Darjiling	69	41	24	24	23	50	59	31	20	27
	Jalpaiguri	467	251	101	67	74	171	163	144	132	154
Dacca	Dacca	804	516	288	153	191	354	325	300	225	652
	Faridpore	526	352	198	169	137	259	245	223	204	435
	Backergunj	1,197	512	286	151	185	472	370	300	295	673
	Mymensing	763	541	333	231	364	676	581	420	319	741
Chittagong	Chittagong	232	217	114	57	92	220	155	198	180	331
	Noakhali	455	330	162	75	76	174	156	119	117	289
	Tipperah	817	350	165	126	214	358	331	255	192	512
Patna	Patna	670	376	165	102	88	298	306	361	415	634
	Gya	958	843	376	249	160	493	459	612	641	1,092
	Shahabad	1,154	843	381	169	116	524	553	654	633	1,383
	Mozufferpore	952	428	258	167	143	419	409	427	404	692
	Durbhunga	258	380	222	161	103	382	397	372	381	496
	Sarun	373	370	147	94	96	259	301	317	351	779
	Chumparun	374	522	302	160	119	351	352	332	372	568
Bhaugulpore	Monghyr	1,134	965	327	240	135	372	388	470	482	800
	Bhaugulpore	815	634	459	279	284	541	594	54	437	563
	Purneah	575	941	474	313	246	613	604	504	434	430
	Maldah	270	806	683	301	222	505	417	317	206	414
	Sonthal Pergunnahs	287	256	18[illegible]	96	125	190	170	160	163	175
Orissa	Cuttack	107	230	84	55	78	177	172	17[illegible]	107	395
	Puri	350	112	51	24	49	[illegible]	100	108	125	231
	Balasore	337	140	72	43	61	117	106	120	119	215
Chota Nagpore	Hazaribagh	601	192	250	112	63	177	214	223	258	501
	Lohardugga	57	557	241	135	108	284	231	275	257	370
	Singhbhum	9	174	44	37	31	47	72	81	70	91
	Manbhum	192	131	118	67	70	122	121	113	100	193
	TOTAL FOR THE PROVINCE	22,[illegible]08	19,568	11,880	6,736	6,675	14,827	13,955	12,742	11,453	20,675

Age — Ratio per 1,000 of population per annum

Divisions	Districts	Under 1 year	1 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 20 years	20 and under 30 years	30 and under 40 years	40 and under 50 years	50 and under 60 years	60 years and upwards
Burdwan	Burdwan	137·52	19·20	11·04	8·28	13·44	14·52	14·16	18·72	24·00	50·04
	Bankura	107·76	13·08	7·68	7·92	10·44	13·00	13·41	23·88	12·12	41·52
	Birbhum	247·32	33·72	19·60	11·64	16·08	14·04	14·16	19·36	20·64	52·92
	Midnapore	161·88	20·28	10·92	8·88	12·00	12·24	17·64	24·72	35·64	70·68
	Hughli	165·48	32·28	17·16	14·88	17·04	18·00	19·44	26·16	34·56	69·48
	Serampore	165·24	40·68	19·80	13·32	21·72	19·68	20·64	28·05	28·44	67·20
	Total (Hughli, including Serampore)	165·48	35·16	19·90	14·40	18·60	18·64	19·92	26·88	32·40	63·64
Presidency	Howrah	126·84	29·64	16·20	11·64	14·64	14·28	16·08	21·00	21·72	70·20
	24-Pergunnahs	153·84	38·76	21·36	16·32	27·84	25·08	24·84	28·56	41·04	64·60
	Nuddea	204·60	35·88	25·08	18·36	21·60	15·24	16·08	21·84	30·96	57·36
	Jessore	135·12	45·60	30·00	22·56	27·72	22·08	23·92	25·20	32·76	64·20
	Murshidabad	180·00	47·28	28·44	22·68	22·32	20·16	21·76	30·72	38·76	60·96
	Khulna	184·44	40·56	19·44	11·88	21·48	23·85	24·72	29·40	32·52	83·16
Rajshahye	Dinajpur	210·00	51·12	17·58	16·92	21·72	26·64	27·00	29·64	38·16	52·56
	Rajshahye	124·32	32·76	22·44	16·32	21·09	20·28	21·60	24·36	29·40	45·84
	Rungpore	183·00	39·60	20·88	16·92	23·28	22·32	25·08	30·96	38·76	52·20
	Bogra	193·44	24·84	13·5[illegible]	13·32	18·84	19·44	20·52	28·92	29·16	53·16
	Pubna	120·8[illegible]	31·44	28·68	25·32	22·32	19·72	19·32	20·64	21·48	44·28
	Darjiling	264·96	31·68	15·36	18·36	29·88	17·16	27·60	27·24	33·12	46·68
	Jalpaiguri	347·28	43·56	13·68	13·20	21·24	21·24	23·04	30·48	46·80	57·24
Dacca	Dacca	165·00	21·24	10·32	8·04	14·16	12·72	13·92	19·20	24·00	58·92
	Faridpore	155·76	19·68	9·84	11·64	13·56	11·52	13·08	17·16	24·84	53·16
	Backergunj	307·32	14·60	12·84	9·24	13·44	16·44	17·16	21·00	32·76	81·60
	Mymensing	123·48	15·84	7·92	9·12	17·52	15·84	16·68	19·08	26·88	52·08
Chittagong	Chittagong	84·24	17·64	7·20	4·92	11·40	16·32	16·32	24·3[illegible]	32·04	64·44
	Noakhali	255·12	35·28	14·64	10·08	13·08	15·96	17·04	20·40	30·24	80·76
	Tipperah	272·28	20·04	8·52	9·12	20·16	17·16	19·68	22·9	27·84	85·20
Patna	Patna	165·12	21·12	8·40	7·20	9·24	11·76	14·28	22·92	39·72	58·92
	Gya	268·80	36·36	15·48	14·16	14·28	16·92	17·40	32·40	58·08	103·44
	Shahabad	309·84	40·80	16·68	9·96	10·92	18·00	22·08	39·72	69·36	130·80
	Mozufferpore	70·08	15·72	7·68	7·68	9·48	11·88	12·72	18·84	25·68	46·80
	Durbhunga	61·44	11·04	6·60	7·51	6·84	9·24	11·76	15·84	26·64	30·60
	Sarun	79·20	15·84	5·28	4·68	7·50	8·52	10·20	15·84	30·84	67·92
	Chumparun	90·60	31·72	14·88	11·28	12·48	14·52	15·48	22·08	44·84	71·52
Bhaugulpore	Monghyr	360·12	43·44	13·68	14·04	11·88	14·28	15·90	27·60	47·52	85·92
	Bhaugulpore	265·32	36·12	17·64	15·84	24·00	21·24	23·40	34·44	48·36	70·56
	Purneah	179·28	52·80	13·92	21·60	21·48	23·52	24·72	32·04	51·84	[illegible]
	Maldah	167·88	11·[illegible]0	72·96	49·08	50·52	51·96	49·48	60·24	65·41	115·20
	Sonthal Pergunnahs	110·28	12·36	7·68	6·36	13·2[illegible]	9·84	9·64	14·70	24·84	27·24
Orissa	Cuttack	162·00	12·1[illegible]	3·72	3·36	6·84	6·65	8·52	12·72	20·4	42·00
	Puri	260·40	11·76	4·68	3·84	5·76	7·44	10·24	15·90	25·32	56·16
	Balasore	195·72	16·68	6·12	4·92	9·84	8·52	12·96	15·48	25·92	57·60
Chota Nagpore	Hazaribagh	173·64	37·44	16·55	11·40	9·96	11·74	16·20	28·08	55·92	138·24
	Lohardugga	162·24	28·44	12·84	8·88	11·16	11·88	12·24	19·44	40·32	69·36
	Singhbhum	123·60	29·88	10·32	8·52	9·72	7·56	13·44	25·44	37·32	56·04
	Manbhum	82·08	11·28	7·18	7·44	9·24	8·64	9·72	15·48	21·24	45·12
	TOTAL FOR THE PROVINCE	172·32	25·68	14·47	11·88	15·96	15·96	17·52	23·88	35·04	64·68

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 25th January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Offg. Sanitary Commissioner for Bengal.

MEMORANDUM.

The table annexed to this memorandum shows—

1. That during the week ending 12th January 1889, births and deaths were registered in the principal Municipalities in Bengal at the rates respectively of 25 9 and 26·6 per 1,000 of population, against 25·4 and 28·9 per 1,000, respectively, during the preceding week ending 5th January, indicating a falling off in the registration of deaths.

2. That the following Municipalities furnished the highest proportions of births and deaths:—

Births.

	Ratio per mille.
Bali	52 6
Naraingunj	49·7
Bhagulpore	38·0
Monghyr	36·2
Comillah	34·6
Purneah	34·6
Rampore Beauleah	34·2
Serampore	33·4
Howrah	33·2
Gya	30·7

Deaths.

	Ratio per mille.
Serampore	56·9
Suburbs of Calcutta	45·9
Burdwan	42·7
Bali	35·1
Howrah	34·4
Puri	31·5

3. That as compared with the results of the preceding week, there was a sensible diminution of mortality from fever and bowel-complaints, but no important differences in the death-rates from the other diseases, *vide* figures given below:—

	Ratio per mille during the weeks ending— 12th Jan. 1889.	5th Jan. 1889.
Cholera	2 8	2·7
Small-pox	·1	·2
Fever	10·2	11·3
Bowel-complaints	4 3	5·3
Injury	·6	·5
Other causes	8·6	8 9

4. That the mortality from small-pox and injury was nowhere high, and that the other diseases mentioned above caused the highest mortality in the following Municipalities:—

Cholera.

	Ratio per mille.
Serampore ...	11 8
Howrah ...	8·6
Suburbs of Calcutta ...	6·8
Dacca ...	3 2

Fever.

	Ratio per mille.
Burdwan ...	24·4
Rampore Beauleah ...	21·0

Bowel-complaints.

	Ratio per mille.
Serampore ...	11·8
Suburbs of Calcutta ...	11·0

Other causes.

	Ratio per mille.
Puri ...	21·0
Serampore ...	17·7
Monghyr ...	12·7
Midnapore ...	12·4
Burdwan ...	12·2
Suburbs of Calcutta ...	12·2
Bhagulpore ...	10 0

5 That the mortality of the week distributed under the heads of *Sex*, *Class* and *Age* stood as follows:—

According to Sex.

	Ratio per mille.
Males	27 2
Females	26·0
Ratio of male deaths to every 100 female deaths	118

According to Class.

	Ratio per mille.
Christians	39·1
Hindus	27·0
Mahomedans ...	25·6

According to Age.

	Ratio per mille.
Under 1 year ...	193·8
1 and under 5 years ...	24·2
5 „ 10 „ ...	8·3
10 „ 15 „ ...	9·0
15 „ 20 „ ...	14·1
20 „ 30 „ ...	19·2
30 „ 40 „ ...	21·0
40 „ 50 „ ...	24·0
50 „ 60 „ ...	38·8
60 years and upwards ...	69·8

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 25th January 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 12th January 1889.

1	2	3			4			5			6	7							8							9	10		11		12
												MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS. Number of—			Ratio per 1,000 of Population per annum.			Ratio of male births to every 100 female births.	Deaths from—							Ratio per 1,000 of Population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		Ratio of male deaths to every 100 female deaths.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan ...	19,063	16,017	34,980	7	6	13	10·7	9·1	19·8	116	..		16	4	.	8	28	..	.	24·4	6·1	..	12·2	42·7	33·6	10	18	23·8	59·4	55
Midnapore ...	Midnapore ...	16,927	16,633	33,560	10	5	15	15·5	7·7	23·2	200	.	.	2	3	...	8	13		.	3·1	4·6	...	12·4	20·1	27·9	9	4	27·6	13·5	225
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	9	11	19	19·7	14·8	25·5	72	1	..	7	6		2	16	1·3	...	9·4	8·1	...	2·7	21·5	20·1	9	7	24·4	18·6	128
Serampore ...	Serampore ...	13,559	12,937	26,496	12	5	17	23·6	9·8	33·4	240	6	..	7	6	1	9	29	11·8	...	13·7	11·8	1·9	17·7	56·9	45·1	18	11	69·0	44·2	164
	Utterpara ...	3,046	2,464	5,510	.	2	2		18·9	18·9	No male birth	..	.	1		..	1	2		...	9·4	..	...	9·4	18·9	37·7	2	...	34·1	.	No female death.
Howrah ...	Howrah ...	53,153	37,660	90,813	29	29	58	16·6	16·6	33·2	100	15	...	12	17	2	14	60	8·6	...	6·9	9·7	1·1	8·0	34·4	29·2	33	27	33·3	37·3	122
	Bali ...	7,836	6,979	14,815	6	9	15	21·0	31·6	52·6	66	2	.	2	2	1	3	10	7·0	...	7·0	7·0	3·5	10·5	35·1	14·0	5	5	33·2	37·3	100
24-Pergunnahs ...	Suburbs of Calcutta ..	147,205	104,234	251,439	54	61	115	11·2	12·6	23·8	88	33	.	73	53	4	59	222	6·8	..	15·1	11·0	·8	12·2	45·9	59·6	120	102	42·4	50·9	117
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	6	2	8	11·4	3·8	15·1	300	1	..	5	.	...	5	11	1·9	...	9·4	.	...	9·4	20·8	24·6	8	3	31·4	11·0	266
	Ranaghat ...	4,028	4,655	8,683			..		...	.	.	...	...	...	...	...	...	..	.	..	...	...	...	...		6·0	...	.	...	..	......
	Santipore ...	13,708	15,979	29,687	6	4	10	10·5	7·0	17·5	150	.	...	4		...		4	...	...	7·0	.	...	..	7·0	19·3	3	1	11·4	3·3	300
Jessore ...	Jessore ...	4,830	3,665	8,495	1	..	1	6·1	...	6·1	No female birth	1	...	3	.	...	...	4	6·1	...	18·4	..	...	...	24·5	6·1	1	3	10·8	12·6	33
Rajshahye ...	Rampore Beauleah ..	10,766	9,025	19,791	7	6	13	18·4	15·8	34·2	116	.	...	8	3	...	.	11	..	...	21·0	7·9	...	...	28·9	34·2	8	3	38·6	17·3	256
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	.	3	3		19·6	19·6	No male birth	.	...	3	.	...		3	..	..	19·6	...	...	..	19·6	32·6	2	1	20·7	17·6	200
Dacca ...	Dacca ...	42,782	37,379	80,161	13	22	35	8·4	14·3	22·7	59	5	1	12	2	1	10	31	3·2	·6	7·8	1·3	·6	6·5	20·1	20·1	20	11	24·3	15·3	181
	Narainganj ...	7,605	4,956	12,561	5	7	12	20·7	29·0	49·7	71	1	...	1	..	...	2	4	4·1	...	4·1		..	8·3	16·6	37·3	3	1	20·5	19·5	300
Chittagong ...	Chittagong ...	13,340	8,790	22,130	4	2	6	9·4	4·7	14·1	200		..	7	.	.	1	8	...	...	16·4	...	.	2·3	18·8	14·1	4	4	15·6	23·7	100
Tipperah ...	Comillah ...	8,153	5,353	13,506	3	6	9	11·5	29·1	34·6	50	...	..	3	1	...	3	7		...	11·5	3·9	..	11·5	27·0	23·1	4	3	25·5	20·1	133
Patna ...	Patna City ...	78,762	81,475	160,237	34	40	74	11·6	13·0	24·0	85	4	2	15	5	4	17	47	1·3	·6	4·9	1·6	1·3	5·5	15·3	15·3	23	24	15·2	15·3	*95
Gya ...	Gya ...	38,290	37,831	76,121	26	19	45	17·7	13·0	30·7	135		.	24	1	...	10	35		...	16·4	·7		6·8	23·9	25·7	17	18	23·1	24·7	94
Shahabad ...	Arrah ...	20,960	22,505	43,465	8	5	13	9·6	6·0	15·6	160	.	.	5	...	1	4	10	..	...	6·0	.	1·2	4·8	12·0	9·6	6	4	14·9	9·2	150
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	4	7	11	4·5	8·5	13·4	57	1	..	1			6	8	1·2	..	1·2	..	..	7·3	9·7	18·2	3	5	6·8	13·2	60
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	17	17	34	13·3	13·3	26·7	100			21	2	.	12	35	..	.	16·5	1·6	...	9·4	27·5	24·4	16	19	24·6	30·6	84
Sarun ...	Chupra ...	26,041	27,205	53,240	16	14	30	15·6	13·7	29·3	144			2	1		8	11	.	...	1·9	1·0		7·8	10·7	20·5	7	4	14·0	7·6	175
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	18	24	42	31·6	21·7	38·0	75	1	..	7		...	11	19	·9	...	6·3	..	...	10·0	17·2	12·7	14	5	24·6	9·3	280
Monghyr ...	Monghyr ...	28,174	29,355	57,529	23	17	40	20·8	15·4	36·2	135		..	10	3	1	14	28	.	..	9·0	2·7	·9	12·7	25·3	13·6	13	15	24·0	26·6	86
Purneah ...	Purneah ...	8,463	6,553	15,016	9	1	10	[illegible]	[illegible]	34·6	900	..	.	5	.	...	1	6	...	..	17·3	...	.	3·4	20·8	17·3	3	3	18·4	23·8	100
Puri ...	Puri ...	13,247	11,537	24,784	4	4	8	8·4	8·4	16·8	100			3	2		10	15	...		6·3	4·2	..	21·0	31·5	35·7	6	9	23·6	40·6	66
	Total ..	702,890	619,661	1,322,551	330	329	659	13·0	12·9	25·9	100	71	3	253	111	15	218	677	2·8	·1	10·2	4·3	·6	8·6	26·6	28·9	367	310	27·2	26·0	118

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated from the revised population under all heads in the above table except "Age," the ratios under which have been omitted, inasmuch as the census of ... [illegible] ... as a basis of calculation owing to the results of the census made ... not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO— Class. (13, 14)

DISTRICTS.	NAMES OF MUNICIPALITIES.	13. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14. Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	16	12	...	...	...	35·1	60·8	...	...
Midnapore	Midnapore	1	11	1	...	...	233·2	22·1	7·2	...	...
Hughli	Hughli and Chinsurah ...	...	14	2	...	...	...	23·0	15·2	...	..
Serampore	Serampore	...	29	...	...	...	...	59·8	...	...	...
	Utterpara	...	2	...	...	...	...	19·5	...	...	...
Howrah	Howrah	...	50	10	...	...	...	38·2	25·3	...	...
	Bali	...	10	...	...	...	...	38·8	...	...	...
24-Pergunnahs	Suburbs of Calcutta	5	137	80	...	...	64·2	47·5	43·1	...	...
Nuddea	Kishnaghur	...	6	5	...	...	...	16·7	31·4	...	...
	Ranaghat	...	...	...	...	...	...	...	...	...	...
	Santipore	...	4	...	...	...	...	10·0	...	...	...
Jessore	Jessore	...	...	4	...	...	..	...	54·4	...	...
Rajshahye	Rampore Beauleah	...	5	6	...	...	...	26·2	31·8	...	...
Darjiling	Darjiling	...	3	...	...	...	...	34·0	...	...	...
Dacca	Dacca	2	12	17	...	...	215·9	15·5	22·5	...	...
	Naraingunj	...	2	2	...	...	...	16·4	16·9	...	...
Chittagong	Chittagong	1	...	7	...	...	65·3	...	23·8	...	...
Tipperah	Comillah	...	5	2	...	...	...	43·7	14·1	...	...
Patna	Patna City	...	37	10	...	...	...	16·2	12·7	...	...
Gya	Gya	...	29	6	...	...	...	25·1	19·4	...	...
Shahabad	Arrah	...	7	3	...	...	...	11·7	12·6	...	...
Mozufferpore ...	Mozufferpore	...	5	3	...	...	...	8·7	12·5	...	...
Durbhanga	Durbhanga	...	23	12	...	...	...	24·7	35·5	...	...
Sarun	Chupra	...	9	2	...	...	...	11·4	8·7	...	...
Bhagulpore	Bhagulpore	...	16	3	...	...	...	20·3	9·1	...	...
Monghyr	Monghyr	...	24	4	...	...	...	27·9	16·5	...	...
Purneah	Purneah	...	4	2	...	...	...	22·7	18·4	..	...
Puri	Puri	...	15	...	...	...	...	31·8	...	...	...
	TOTAL ...	9	475	193	...	...	39·1	27·0	25·6	...	...

MORTALITY ACCORDING TO— Age. (15, 16)

DISTRICTS.	NAMES OF MUNICIPALITIES.	15. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	4	...	1	1	2	3	6	4	2	5	315·2	...	22·3	20·7	33·3	19·7	45·2	47·1	42·4	175·4
Midnapore	Midnapore	1	1	1	1	1	1	..	1	2	4	70·0	22·1	13·9	17·1	16·5	7·1	...	14·0	50·4	113·7
Hughli	Hughli and Chinsurah	5	3	1	...	...	2	1	1	1	2	275·7	58·5	14·9	...	...	13·6	7·4	10·1	15·9	41·5
Serampore	Serampore	7	7	...	1	...	3	3	3	...	5	512·7	201·7	...	23·4	...	29·0	31·4	46·2	...	186·9
	Utterpara	1	...	...	...	...	...	1	..	...	..	323·0	...	...	.		...	49·0	...		...
Howrah	Howrah	5	4	...	1	6	8	14	7	7	8	126·0	37·5	...	7·9	42·6	18·3	37·8	31·0	66·3	110·9
	Bali	3	2	..	..	...	2	1	1	1	...	430·9	54·1	...	...	...	31·1	18·6	26·9	49·6	...
24-Pergunnahs	Suburbs of Calcutta	28	17	4	4	8	40	39	27	25	30	305·6	54·7	10·6	11·6	23·1	35·8	30·4	41·3	76·6	109·6
Nuddea	Kishnaghur	4	..	1	...	1	...	..	...	2	3	419·4	...	15·1	...	25·3	...	...	...	49·4	90·3
	Ranaghat	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
	Santipore	2	1	...	...	...	1	...	...	...	..	123·1	17·9	...	...	...	10·6	...	...	...	...
Jessore	Jessore	1	...	...	...	...	2	...	1	...	...	268·0	...	...	...	...	51·6	...	49·5	...	...
Rajshahye	Rampore Beauleah	1	...	...	1	1	3	2	3	...	...	128·1	...	...	28·9	31·3	37·5	28·9	63·6	...	...
Darjiling	Darjiling	...	...	...	...	...	3	...	..	...	...	...	...	...	...	...	78·0	...	...	...	...
Dacca	Dacca	3	2	3	2	2	3	5	2	4	5	82·2	14·1	15·7	13·1	14·2	10·2	22·3	12·4	43·9	46·7
	Naraingunj	2	1	...	...	...	1	...	...	...	...	372·8	45·6	...	...	...	19·5	...	...	...	...
Chittagong	Chittagong	...	1	1	1	...	1	1	1	1	1	...	26·4	20·8	20·2	...	11·2	15·6	23·0	47·9	65·3
Tipperah	Comillah	3	...	...	...		...	...	2	...	1	525·3	...	...	...	41·3	...	...	79·1	...	76·7
Patna	Patna City	6	2	4	6	...	5	..	4	11	9	72·4	7·1	12·4	21·7	...	9·0	...	11·0	40·5	33·9
Gya	Gya	4	2	1	1	...	6	1	6	5	9	116·2	16·4	7·4	7·7	.	21·2	4·1	31·9	39·6	90·9
Shahabad	Arrah	1	1	...	...	1	1	...	1	1	4	40·4	11·7	...	...	16·5	6·6	...	11·1	16·8	72·1
Mozufferpore	Mozufferpore	3	...	1	...	...	...	3	.	...	1	163·4	...	11·6	...	...	...	22·4	...	...	21·4
Durbhanga	Durbhanga	13	3	1	...	2	3	2	3	2	6	434·2	20·5	6·6	...	25·9	11·7	9·3	21·0	23·7	97·7
Sarun	Chupra	3	...	...	1	..	...	3	...	1	3	108·0	...	...	10·1	...	...	19·3	...	12·3	44·8
Bhagulpore	Bhagulpore	5	2	1	...	...	6	1	1	1	2	217·8	19·2	8·9	...	...	25·5	5·6	8·1	12·2	25·9
Monghyr	Monghyr	4	1	1	...	1	2	6	4	2	7	140·1	8·4	7·4	...	13·8	10·1	35·0	32·6	26·2	101·5
Purneah	Purneah	1	...	...	...	...	2	2	...	...	1	193·7	...	...	...	...	31·7	38·8	...	...	64·4
Puri	Puri	3	1	...	...	1	2	1	2	3	2	514·9	28·9	...	...	28·0	19·7	12·8	31·3	69·9	57·6
	TOTAL	113	51	21	20	27	100	92	74	71	108	193·8	24·2	8·3	9·0	14·1	19·2	21·0	24·0	38·8	69·8

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 25th January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Offg. Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 26th January 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 26th January 1889.			Week ending Saturday, the 28th January 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,803	5,06,175	8,984	1,832	4,99,075	9,592
Jute	142	97,075	1,735	241	1,07,075	1,886
Firewood	125	61,400	878	90	59,700	909
Other articles	1,244	2,53,510	3,715	961	2,18,080	3,251
Total ...	3,314	9,18,160	15,312	3,124	8,83,930	15,638

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	241,410	2,83,431 8 0	28,01,830 30	6,03,164 0 6	16,713 3 0	9,03,308 11 6	64,307½	92,083¼	156,400½
Or per mile of railway ..		187 3 9		398 7 4	11 0 8	596 11 9	....	...	..
For previous 2 weeks of half-year	384,287	4,60,992 13 0	50,96,198 10	10,96,819 9 0	29,458 5 0	15,87,270 11 0	111,933¾	169,175¼	281,129¼
Total for 3 weeks ..	625,697	7,44,424 5 0	78,98,029 0	16,99,983 9 6	46,171 8 0	24,90,579 6 6	176,321	261,208¾	437,529¾
Comparison.									
Total for corresponding week of previous year ...	290,441	3,28,089 7 2	25,95,843 10	6,22,886 7 0	22,158 14 6	9,73,134 12 8	66,392	102,481	168,873
Per mile of railway corresponding period of previous year		216 11 10	......	411 7 9	14 10 3	642 13 10	......	......	......
Total to corresponding date of previous year	811,089½	9,48,170 3 0	82,03,182 20	19,60,764 13 9	64,100 6 4	29,73,104 6 1	198,293	311,961	510,254

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	9,73,135	643	1,513¾	9,03,309	597	1,513¾	3,63,31,870	571	1,513¾	3,48,06,859	547	... ..	15,25,011

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 57⅛ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried.	Receipts			Coaching	Merchandise	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P	Rs A. P			
Total traffic for the week .	11,437	6,113 9 0	24,171 30	1,728 3 0	88 2 10	7,909 11 10	1,785	609	2,394
Or per mile of railway ..	200	107 6 6	422 30	30 3 5	0 10 8	138 4 7	... .	....	......
For previous 2 weeks of half-year	21,961	11,648 14 0	41,623 30	2,895 8 0	46 5 0	14,560 11 0	3,038	1,066	4,104
Total for 3 weeks ...	33,398	17,762 7 0	65,795 20	4,623 11 0	84 7 10	22,470 9 10	4,823	1,675	6,498
Comparison.									
Total for corresponding week of previous year . ..	13,590	7,849 9 10	38,320 10	2,486 10 0	63 4 6	10,390 8 4	2,006	502	2,508
Per mile of railway corresponding week of previous year .	238	137 1 2	670 10	43 7 7	1 1 8	181 10 5	..		......
Total to corresponding date of previous year	39,949	21,109 12 0	1,04,933 30	6,447 7 0	168 7 0	27,725 11 6	5,662	1,634	7,296

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		R	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅛	10,391	182	57⅛	7,910	138	57⅛	4,07,873	170	57⅛	3,90,490	163	... ..	17,382

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 12 miles open.

	Coaching Traffic: Number of passengers.	Coaching Traffic: Receipts	Merchandise and Mineral Traffic: Weight carried.	Merchandise and Mineral Traffic: Receipts	Other earnings (estimated).	Total earnings	Traffic Train-miles run: Coaching	Traffic Train-miles run: Merchandise	Traffic Train-miles run: Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,469	414 4 0	26,817 10	662 3 0	5 1 8	1,081 8 8	333½	150	493½
Or per mile of railway		34 8 4		55 2 11	0 6 10	90 2 1			
For previous [illegible] weeks of half-year	4,085	700 1 0	43,163 0	1,041 2 0	12 2 0	1,753 5 0	604	12	816
Total for 3 weeks	6,554	1,114 5 0	69,980 10	1,703 5 0	17 3 8	2,834 13 8	937½	162	1,309½
Comparison									
Total for corresponding week of previous year	3,245	531 8 11	27,535 0	609 2 0	7 4 0	1,147 14 11	545	148	693
Per mile of railway corresponding week of previous year		44 4 9		50 12 2	0 9 8	95 10 7	...	..	.
Total to corresponding date of previous year	9,903	1,629 6 0	72,712 20	1,620 0 0	25 2 6	3,274 8 6	991	188	1,179

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st January 1888: Mean mileage worked	Receipts.	Per mile worked	Receipts for week ending 19th January 1889: Mean mileage worked	Receipts.	Per mile worked	Total receipts from 1st April 1887 to 21st January 1888: Mean mileage worked	Total receipts	Per mile worked per week	Total receipts from 1st April 1888 to 19th January 1889: Mean mileage worked	Total receipts	Per mile worked per week	Total increase in 1889.	Total decrease in 1889.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,148	[illegible]	12	1,082	90	12	[illegible]	77	12	36,914	75		[illegible]

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 71 miles open.

	Coaching Traffic: Number of passengers	Coaching Traffic: Receipts	Merchandise and Mineral Traffic: Weight carried	Merchandise and Mineral Traffic: Receipts	Other earnings (estimated)	Total earnings	Traffic Train-miles run: Coaching	Traffic Train-miles run: Merchandise	Traffic Train-miles run: Total
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	167 9 6	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]	1 7 0	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]									
Total for corresponding week of previous year	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Per mile of railway corresponding week of previous year		[illegible]		[illegible]	10 10	[illegible]			
Total to corresponding date of previous year	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st January 1888: Mean mileage worked.	Receipts	Per mile worked.	Receipts for week ending 19th January 1889: Mean mileage worked	Receipts	Per mile worked	Total receipts from 1st April 1887 to 21st January 1888: Mean mileage worked	Total receipts	Per mile worked per week	Total receipts from 1st April 1888 to 19th January 1889: Mean mileage worked	Total receipts	Per mile worked per week	Total increase in 1889.	[illegible]
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	[illegible]
71½	8,424	118	71½	8,796	118	74	3,61,1[illegible]	115	74½	2,85,791	91		[illegible]

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,168	4,954 9 0	11,215 0	363 14 0	7 5 10	5,325 12 10	911	57	968
Or per mile of railway	.. ..	222 10 10	......	16 5 8	0 5 3	239 5 9	......	......	......
For previous 2 weeks of half-year	30,815	7,913 6 0	14,231 30	497 6 0	12 5 0	8,423 1 0	1,554	105	1,659
Total for 3 weeks ...	50,983	12,867 15 0	25,446 30	861 4 0	19 10 10	13,748 13 10	2,465	162	2,627
Comparison.									
Total for corresponding week of previous year	19,737	4,936 12 10	6,393 0	201 13 0	4 2 0	5,142 11 10	869	99	968
Per mile of railway corresponding week of previous year ...	......	221 14 1	... ..	9 1 1	0 3 0	231 2 2	......	......	......
Total to corresponding date of previous year	53,724½	13,309 12 4	21,032 30	658 3 0	15 5 0	13,983 4 4	2,502	312	2,904

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,143	231	22½	5,326	239	22½	2,07,212	222	22½	2,17,129	232	9,917	..

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for the first 12 days of January 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 12 days ..	225,910	1,16,090 0 0	8,89,830 0	2,31,380 0 0	28,600 0 0	3,76,070 0 0	36,862	54,426	91,288
Or per mile of railway .	336	172 0 0	1,322 0	344 0 0	*7 0 0	523 0 0	..	.. .	
For previous weeks of half-year	......	. .	... ..	......	...	. .	.	.	
Total for 12 days or 2 weeks ...	225,910	1,16,090 0 0	8,89,830 0	2,31,380 0 0	28,600 0 0	3,76,070 0 0	36,862	54,426	91,288
Comparison.									
Total for corresponding 14 days of previous year ...	282,823	1,18,075 0 0	8,20,347 0	1,74,273 0 0	23,671 0 0	3,16,019 0 0	42,496	49,367	91,863
Per mile of railway corresponding period of previous year .	438	183 0 0	1,272 0	270 0 0	*7 0 0	460 0 0	. ...	... ..	.....
Total to corresponding date of previous year	282,823	1,18,075 0 0	8,20,347 0	1,74,273 0 0	23,671 0 0	3,16,019 0 0	42,496	49,367	91,863

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for first 14 days of January 1888.			Receipts for first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs	Rs.	Rs.	Rs.
645	3,16,019	490	673	3,76,070	559	645	76,65,725	290	673	*85,41,345	310	8,75,620	......

* Audited up to week ending 1st December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for first 12 days of January 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 12 days ..	41,890	14,710 0 0	75,400 0	4,170 0 0	2,180 0 0	21,060 0 0	6,132	3,557	9,689
Or per mile of railway ..	335	118 0 0	603 0	33 0 0	18 0 0	169 0 0	......	......	......
For previous weeks of half-year	..	..	.. .	.....	... ..	......	... ..	......	.....
Total for 12 days or 2 weeks ...	41,890	14,710 0 0	75,400 0	4,170 0 0	2,180 0 0	21,060 0 0	6,132	3,557	9,089
Comparison.									
Total for corresponding 14 days of previous year	40,077	16,122 0 0	78,708 0	4,792 0 0	228 0 0	21,142 0 0	6,606	3,814	10,420
Per mile of railway corresponding period of previous year	393	129 0 0	630 0	38 0 0	2 0 0	169 0 0	......	......	......
Total to corresponding date of previous year ...	40,077	16,122 0 0	78,708 0	4,792 0 0	228 0 0	21,142 0 0	6,606	3,814	10,420

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for first 14 days or 2 weeks of January 1888.			Receipts for first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	21,142	169	125	21,060	169	125	5,26,726	103	125	*5,62,599	110	35,873	......

* Audited up to week ending 1st December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for first 12 days of January 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 12 days .	22,500	8,010 0 0	23,030 0	2,760 0 0	150 0 0	10,920 0 0	4,322	1,032	5,354
Or per mile of railway	263	93 0 0	275 0	32 0 0	2 0 0	127 0 0	......	. . .	.....
For previous weeks of half-year			.. .	.. ..	... .	.. ..	......	..	
Total for 12 days or 2 weeks .	22,500	8,010 0 0	23,630 0	2,760 0 0	150 0 0	10,920 0 0	4,322	1,032	5,354
Comparison									
Total for corresponding 14 days of previous year	28,617	9,035 0 0	18,974 0	2,129 0 0	329 0 0	11,493 0 0	4,970	1,238	6,208
Per mile of railway corresponding period of previous year	333	105 0 0	221 0	25 0 0	4 0 0	134 0 0	. ....	..	.. ..
Total to corresponding date of previous year .. .	28,617	9,335 0 0	18,974 0	2,129 0 0	329 0 0	11,493 0 0	4,970	1,238	6,209

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for first 2 weeks of January 1888.			Receipts for first 12 days of January 1889.			Total receipts from 1st April 1887 to 14th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	11,493	134	86	10,920	127	86	2,37,431	67	86	*2,35,959	67	....	1,472

* Audited up to week ending 1st December 1888.

ASSAM-BEHAR STATE RAILWAY

(PURNEAH SECTION.)

Approximate Return of Traffic for first 12 days of January 1889, on 38 miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 12 days	3,917	1,450 0 0	36,240 0	2,970 0 0	50 0 0	4,470 0 0	936	936	1,872
Or per mile of railway	103	38 0 0	954 0	78 0 0	2 0 0	118 0 0			
For previous weeks of half-year	...				...		...	...	...
Total for 12 days or 2 weeks	3,917	1,450 0 0	36,240 0	2,970 0 0	50 0 0	4,470 0 0	936	936	1,872
COMPARISON.									
Total for corresponding 14 days of previous year	4,783	1,752 0 0	38,815 0	2,966 0 0	135 0 0	4,853 0 0	1,092	1,092	2,184
Per mile of railway corresponding period of previous year	123	45 0 0	995 0	76 0 0	3 0 0	124 0 0	..		...
Total to corresponding date of previous year	4,783	1,752 0 0	38,815 0	2,966 0 0	135 0 0	4,853 0 0	1,092	1,092	2,184

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for 2 weeks or first 14 days of January 1888.			Receipts for first 12 days of January 1889.			Total receipts from 1st April 1887 to 11th January 1888.			Total receipts from 1st April 1888 to 12th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	4,553	121	38	4,470	118	39	91,886	57	38	*1[illegible],490	88	44,604	...

* Amended up to week ending 1st December 1888.

NALHATI STATE RAILWAY

Approximate Return of Traffic for the week ending 19th January 1889, on 27½ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	[illegible]	[illegible]	[illegible]	[illegible]			Coaching.	Merchandise.	Total.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	171
COMPARISON.									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	134 0 0	[illegible]	50	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 6 0	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17 0 0	[illegible]	[illegible]	1,113	[illegible]

FINANCIAL YEAR

Approximate Statement of gross receipts of the Nalhati State Railway

Receipts for [illegible] January [illegible]			Receipts for [illegible] January 1889			Total receipts from 1st April [illegible] January [illegible]			Total receipts from 1st April [illegible] January 1889			Total increase in 1888-89.	Total decrease in 1888-89.
[illegible]	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	[illegible]601	54	[illegible]	1,949	71	27½	[illegible]	65	27½	79,564	71	7,631	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 19th January 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	30,837	†13,850 0 0	1,37,424 0	13,646 0 0	3,176 0 0	30,571 0 0	5,691	4,887	10,578
Or per mile of railway ..	146	51 0 0	503 0	40 0 0	3 0 0	103 0 0	.. ..	...	
For previous 1 week of half-year	58,236	20,059 0 0	2,30,219 0	20,273 0 0	5,175 0 0	45,507 0 0	9,000	9,179	18,179
Total for 2 weeks ...	98,073	33,909 0 0	3,67,643 0	33,818 0 0	8,351 0 0	76,078 0 0	14,691	14,066	28,757
Comparison.									
Total for corresponding week of previous year on 259 miles open	30,812	16,751 0 0	1,69,320 0	16,341 0 0	2,934 0 0	30,026 0 0	6,564	7,004	13,568
Per mile of railway corresponding week of previous year ...	154	65 0 0	654 0	63 0 0	1 0 0	120 0 0*	......	......	..
Total to corresponding date of previous year	116,296	45,708 0 0	5,62,022 0	59,977 0 0	9,192 0 0	1,14,877 0 0	18,921	22,502	41,423

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

† Less receipts due to *local passengers* being more than in the corresponding week of the previous year

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889			Total receipts from 1st April 1887 to 21st January 1888			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	36,026	139	273	30,571	112	251·05	13,86,099	135	264·29	13,02,711	120	....	82,388

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED

	Rs.
Approximate earnings for first 12 days of January 1889	5,861
Corresponding week last year	7,954
Decrease	2,093
	Miles.
Miles open first 12 days of January 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open first 12 days of January 1889	114 14 9
Corresponding week last year	155 15 4
Decrease	41 0 7

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 30th January 1889.

REGISTERED No. 29.

No. 6 of 1889.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, FEBRUARY 6, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

No. 18Mne., dated Calcutta, the 30th January 1889.

THE following report of the seventh quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners for making improvements in the Port of Calcutta, is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

Dated Calcutta, the 28th January 1889.

From—MESSRS. H. CLOETE AND W. CONNAN,

To—The Secretary to the Government of Bengal, P. W. Dept.

WE have the honour to report that, in accordance with the instructions contained in the Government of Bengal's letter No. 103M., dated the 12th instant, we made the seventh quarterly inspection of the works at the Kidderpore docks, as shown in the progress report submitted by the Superintending Engineer of the docks on the 10th instant.

2. The index plan with tabular statement showing work done during the quarter under report, and the total quantity of work executed from the commencement of the docks, which have been prepared by the Superintending Engineer in charge of the works, are with Government.

PERMANENT WORKS.

Sixty-feet Lock.—About 3½ lakhs of excavation were taken out, and over 1½ lakhs masonry and 2,500 square feet of foundation were done during the quarter. The two end and centre sections of the lock have been built up to coping level. The founding of the intervening sections was well in hand on our inspection, and arrangements were being made for the erection of the gates.

Eighty-feet Entrance.—Over 6½ lakhs of excavation were taken out, and 56,300 cubic feet of masonry and 5,440 square feet of foundation were done during the quarter. The foundation of this work is now well in hand.

Tidal Basin.—Over 6¼ lakhs of excavation were taken out. Work on the quay walls was stopped, pending further progress on the eighty-feet and double entrances.

Graving Dock.—This work is now well in hand, and good progress may be expected. During the quarter over 9 lakhs of excavation were removed, and nearly 1½ lakhs of masonry and 7,840 square feet of foundation were done.

Double Entrance.—Over 5¼ lakhs of excavation were taken out, and nearly 3 lakhs of masonry and 17,280 square feet of foundation were done. This work is now in good progress.

Dock No. 1.—Up to date about 75 per cent. of the total quay wall masonry has been completed, and about half the total excavation taken out. During the quarter 251 running feet foundation and 240,346 cubic feet masonry were done and 34 lakhs of excavation removed.

Boat Canal.—The piers and abutments for the road bridges were commenced, and good progress was made with them, and excavation for the foundations for the lift lock and syphon culvert was commenced.

Expenditure.—The total expenditure up to end of the quarter was reported to be Rs. 1,19,51.253, of which Rs. 93,83,903 were spent on account of works and Rs. 25,67,350 for land.

SANITARY.

The average number of work-people employed was 8,974, among whom there were 85 deaths (56 of these being from cholera), showing a death-rate of 35 82 per thousand per annum.

GENERAL REMARKS.

We are of opinion that fair progress has been made with the works, and that, so far as we have been able to judge from our inspection, the character of the work is satisfactory.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 2nd February 1889

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
		BENGAL.		
		Western Districts.		
Burdwan Divn.	1	Burdwan Feb. 2, '89	0·36	Weather—cool and seasonable. Standing crops doing well. Prospects fair.
		Culna ...	0·73	
		Cutwa ...	0 60	
		Raneegunge ...	1·25	
	2	Bankoora " 2, '89	0·55	Weather—cold and cloudy. The rainfall on the night of Wednesday (30th January) has been much beneficial to the *rubbi* plants. Prices continue stationary.
	3	Birbhum " 2, '89	0·75	Weather—seasonable. *Rubbi* prospects good. Sugarcane pressing has begun.
		Rampur Hât ..	2·02	
	4	Midnapur " 2, '89	1 67	A storm of rain on the night of 28th January. The wind is now from the north, and the weather is cooler. The rain will do some good to the *boro* crop. Harvesting of *rubbi* going on.
	5	Hugli " 2, '89	0·18	Weather—warm for the time of year. *Rubbi* crops doing well.
		Serampur ..	0 15	
		Jehanabad ...	0 68	
		Howrah " 4, '89	0·15	Weather has become co'der again. *Amun* reaped. Rain expected to do good to *boro* paddy.
		Ooloberiah ...	0·42	
		Central Districts.		
	6	24-Perghs. Feb. 5, '89	0·72	Weather—variable. Prospects of standing crops have somewhat improved since the recent rain Pressing of sugarcane continues.
Presidency Divn.	7	Nuddea " 2, '89	1·07	Weather—cool and cloudy with good rain on 30th. *Rubbi* crops on the whole very fair and reported to have greatly benefited by the rain.
		Kooshtea ...	0 57	
		Meherpur ..	2 1›	
		Chooadanga ...	0·94	
		Ranaghat ...	1 72	
	8	Khoolna " 2, '89	0·26	Weather—cloudy and warmer during the early part of the week, since then cooler. *Amun* crop harvested. Cold weather crops doing well.
	9	Jessore " 2, '89	0 59	Weather—seasonable and occasionally cloudy The recent rainfall has been beneficial to the spring crops. Prospects of winter crops fair.
		Jhenidah	0 65	
		Magoora ..	0 65	
		Narail ..	0 73	
		Bongong ..	0 ‹5	
	10	Moorshedabad " 2, '89	1 04	Weather—a shower of rain with hail-stones on the night of the 29th January. The following day was rainy and cloudy. Cold and damp from the 31st *Haimanti* harvesting is almost completed; outturn estimated to be 12·6 annas on the average. Prospects of *rubbi* good, but the hail-stones will injure linseed and gram to some extent.
		Lalbagh ...	1·80	
		Kandi ..	0·58	
		Jangipur ..	2 15	
Rajshahye Divn.	11	Dinagepur " 2, '89	2·36	Weather—cold and cloudy. The rain will facilitate the preparation of lands for *bhadoi* and jute Prospects of *rubbi* reported fair. Price of rice stationary.
		Thakurgaon ...	2 47	
	12	Rajshahye " 2, '89	1 27	Weather—very cold. A severe hail storm in the Nowgong sub-division has done damage to houses and crops, especially to ganja crop. Rain has improved the prospects of the *rubbi* crops Price of rice varies from 15 to 22½ seers per rupee.
		Nattore ...	1·47	
		Nowgong ..	2·30	
	13	Rungpur " 2, '89	2 49	Weather—fine and bright, but unusually cold. The *rubbi* crops are doing well. The heavy rainfall of the 30th and 31st January has been of immense benefit. Ploughings are now in active progress for the rice and jute crops.
		Gaibanda .	1·16	
		Nilphamari ...	0 40	
	14	Bogra " 2, '89	1·76	Heavy rain on 30th and 31st January. Weather now cold and fine, with high winds. Rice harvest finished. The rain has done much good to the *rubbi* crops. Sugarcane is being cut. Price of rice stationary.
		Sherpore ...	0 70	
		Nowkhila ...	1·19	
	15	Pubna " 2, '89	0·53	Weather—cloudy. *Rubbi* crops are likely to thrive from the little shower of rain. More rain is wanted.
		Serajgunge ...	0·33	
	16	Darjeeling " 2, '89	2 34	Weather—wet, foggy and cold. The rain during the week has materially benefited the crops.
	17	Julpigoree " 2, '89	2 00	Weather—cloudy and foggy with rain on the 30th and 31st January. Sugarcane pressing has commenced in places. Potatoes are being gathered. Yield may be estimated at 10 annas. Tobacco crop is said to have been injured in places by hail-stones. Prices stationary.
		Eastern Districts.		
Dacca Divn.	18	Dacca Feb 2, '89	1 21	Weather—cold and mostly fine. Mustard and pulses are being gathered. Cutting of sugarcane continues. Transplanting of *boro* paddy nearly completed. Recent rain has done much good to the standing crops.
		Manickgunge ...	0 45	
		Munshigunge ...	0 45	
		Naraingunge ...	0 29	
	19	Furreedpur " 2, '89	0·86	The recent rain has done all that could possibly be desired. The prospects of the *rubbi* crops are now excellent.
		Madaripur ...	0·40	
	20	Backergunge Jan 31, '89	0·60	Weather—hot for the time of the year. Prospects of crops fair. Harvesting of *amun* crop is still going on in some places. Outturn reported to be 12 annas.
	21	Mymensingh Feb. 1, '89	0 35	Weather—chilly, rainy and cloudy. State and prospects of crops good. The recent rain has done good to the standing crops and will facilitate the work of ploughing.
		Netrokona .	0 13	
Chittagong Divn.	22	Chittagong " 5, '89	0·59	Weather—seasonable. Winter crops progressing but rain wanted. Prices rising
	23	Noakholly " 1, '89	Nil	Weather—cloudy and rather warm for the [illegible] State of the *rubbi* crops continues to be good.
	24	Tipperah Jan. 31, '89	Nil	Weather—hot and cloudy. Winter crops doing well. Rice is selling at from Rs 2-6 to Rs. 2-8 per maund in the Sudder station. Rain is much wanted.
	25	Chittagong Hill Tracts. " 29, '89	Nil	Weather—very cold. Foggy up to 9 A. M. in the morning. Tobacco and chillies progressing. Mustard is in flower and is forming seed.
		Hill Tipperah " 31, '89	Nil	Weather—cloudy and windy. Chillies and tobacco promising. No other important crops now in the fields.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIVN.			
26	Patna Feb. 2, '89	1·76	Weather—clear and cold. Prospects of *rubbi* and poppy continue favourable Prices stationary.
	Dinapur .	1·23	
	Behar ...	1·82	
	Barh ...	2·14	
27	Gya „ 2, '89	0·67	Weather—seasonable but stormy Harvesting of paddy almost completed. The rain of the week has benefited the *rubbi* crops of late sowings, but has damaged those in flower. Hail-stones have done injury to the poppy as well as to the *rubbi* crops.
28	Shahabad „ 2, '89	1·12	Weather—stormy with showers Prospects of *rubbi* crops improved by rain, though some further damage caused by hail-storm. Prices stationary. Poppy crop promising.
	Buxar ..	0·91	
	Sasseram .	0·39	
	Bhabuah ...	0·03	
29	Durbhunga „ 2, '89	3·00	Greater part of the week cloudy. Heavy rain on 30th and 31st The rainfall of the week will do incalculable good to the *rubbi* crops. The people have set to work to sow *cheena*, *dhan* and *mung*. The rain has, however, done some injury to the *rahar* and tobacco crops. Prices of common rice range between 14 and 19 seers per rupee
	Tajpur ..	1·88	
	Madhubani ...	1·30	
30	Mozuffurpur „ 2, '89	2·79	Weather—cloudy, wet and cold. The heavy rain has been most beneficial. Some, but not serious, damage has been done to *rahar*, tobacco and *rubbi* crops in flower. In North Sitamurhi prospects have materially improved. The backward *rubbi* has been saved, and *cheena* and *mung* will now be sown. The land will be in excellent condition throughout the district for indigo sowing.
	Hajipur ...	1·76	
	Sitamarhi ...	3·75	
31	Sarun „ 2, '89	1·63	Heavy rain throughout the district with hail in places on the 29th and 30th. Weather fine and cold since with strong west wind *Rubbi* excellent. Some slight damage to peas and linseed. Poppy in Sewan a good deal damaged by hail
	Sewan	1·49	
	Gopalgunge .	2·76	
32	Chumparun „ 2, '89	2·61	Weather—fair and chilly. The rainfall of the week has considerably benefited the standing crops, though slight damage is apprehended to wheat and barley where the fall has been excessive. Slight damage is also reported to young poppy by hail in places. Prospects, on the whole, much improved.
BHAGULPORE DIVN.			
33	Monghyr Feb. 2, '89	2·14	Weather—bleak and cloudy throughout the week with occasional fogs at night and morning Rain has been beneficial to the young *rubbi* crops, but somewhat injurious to all other standing crops which are in flower.
	Begoserai ...	2·14	
	Jamooe ...	2·21	
34	Bhagulpur „ 2, '89	1·61	Weather—cloudy with rain and thunder-storms for two days, since then bright and cold. The rain has on the whole greatly benefited the *rubbi* crops, but the hail in places has damaged those approaching maturity. In the north the *rubbi* is poor in the tract where the *bhadoi* and *aghani* failed, and mustard and wheat there will probably yield a six-anna outturn only, but prospects along the Kusi are better Ploughing in progress
	Soopool (up to 30th January 1889)	1·23	
	Madhepurah (up to 31st January 1889).	3·96	
35	Purneah Feb. 2, '89	2·43	Weather—dry, cold and seasonable. The late rain has done much good to the standing crops which are now coming on nicely
	Kishengunge ..	1·98	
	Araria ...	2·19	
36	Maldah „ 2, '89	3·29	Weather—fair in the early part of the week; then cloudy and rainy. Heavy rain with hailstones on Wednesday night (30th) Hail has destroyed 8 annas of the *rubbi* crops in thana English Bazar and outpost Manickchuk, and also to some extent in thana Maldah. In other places rain has done much good.
	Shibgunge ...	2·52	
	Gajole ..	2·50	
37	Sonthal Perghs „ 26, '89	1·72	Weather—cold Heavy rain and hail have done some injury to the standing crops. Rain has, however, benefited the sugarcane and late wheat and barley crops.
	Deoghur ...	1·41	
	Godda ...	3·45	
	Jamtara ...	0·72	
	Pakur ...	2·82	
	Rajmahal ...	1·76	
ORISSA.			
ORISSA DIVN.			
38	Cuttack Feb. 1, '89	Nil	Weather—fair and seasonable. *Sarad* rice being threshed. *Rubbi* crops being gathered. Price of rice stationary.
39	Pooree Jan. 31, '89	Nil	Southerly high winds towards the close of the week. Threshing of winter rice (late *sarad*) going on. *Dalua* rice doing well. *Rubbi* crops promising Rain wanted for ploughing. Common rice 17 seers 1 chittack per rupee in the Sudder sub-division and 17 seers 6 chittacks in the Khoorda sub-division.
40	Balasore Feb. 1, '89	Nil	Weather—variable. Hardly any crops on ground, except some *dalua* rice in the Bhudruck sub-division.
	Bhudruck ...	½ inch.	
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.			
41	Hazaribagh Feb 1, '89	0·36	Weather—cloudy in the early part of the week; bright since. The little rain of the 29th has slightly improved the prospects of the standing *rubbi* and poppy crops, and will facilitate ploughing for early paddy. Prices again show a slight tendency to rise.
42	Lohardugga „ 3, '89	Nil	Weather—changeable in the beginning of the week; now bright and cold. Rain in Palamow has benefited the *rubbi* crops to some extent. More rain wanted. Prices as before.
	Palamow ...	0·35	
43	Singbhoom „ 1, '89	0·21	Weather—cloudy and rather hot for some days during the week. Rain has fallen in various parts of the district Prospect of *rubbi* crops has slightly improved. Price of paddy has risen to 1 maund 24 seers per rupee at some places within the jurisdiction of the Kalkapore outpost from 1 maund 30 seers during the previous week. At other places prices are stationary.
44	Manbhoom „ 2, '89	0·86	Weather—seasonable. Sugarcane pressing still going on; probable outturn 8 to 12 annas. Probable outturn of oil-seeds 8 annas. New rice selling at 18 to 20 seers per rupee.
	Govindpur .	0·65	

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

CALCUTTA; REVENUE DEPT.,
The 5th February 1889.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of October 1888.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS. Rice and Paddy. Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	FIBROUS PRODUCTS. Jute, raw.	Gunny bags.†	OIL-SEEDS. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR. Drained.	Undrained.	TOBACCO. Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.
BENGAL.																		
Burdwan ..	1,56,654	18,530	1,68,241	180	2,867	5	1,71,293	530	6,030	3,872	.. ..	559	....	23	... ..	432	19	6
Beerbhoom ..	21,604	.	21,604	......	... .	.... .	21,604	......	4,165	...	.... .	.	...	302	.	5	...	......
Midnapore ..	1,90,514	19,850	2,02,920	.	8	593	2,03,521	75	800	2,550	487	. ..	21	283	.	715	11	4
Hooghly	80,753	20,869	93,796	6,715	11,629	..	1,12, 40	1,16,670	729,174	20,251	5,918	... .	116	20	455	22,449	4,092	214
24-Pergunnahs ...	1,57,144	24,394	1,72,391	... .	22	2,035	1,74,448	3,43,293	218,640	36	...	. . .	1,019	... .	9,836	7,304	1,861	328
Nuddea	25,503	739	25,965	5,794	92,089	...	1,23,848	1,34,148	1,025	21,608	631	. ..	140	74	442	464	916	785
Khulna	34,505	29,175	51,739	......	56	... ..	52,795	1,60,616	......	.. .	.. ..	.. ..	... .	...	...	2,600	.	...
Jessore ..	45,614	13,675	54,161	.. .	6,636	754	61,571	1,08,571	.....	1,519	... ..	. .	..		119	13,992	888	282
Moorshedabad ..	11,903	......	11,903	6,021	13,342	...	31,816	15,875	... ..	5,683	. ..	. . ..	..	406	100	.....	..	....
Dinagepore	69,064	. ...	69,064	...	735	21	69,820	31,167	177,935	.. .	... ..	......	. ..		... ..	. . ..	...	3
Rajshahye	16,350	... .	16,356	992	16,798	. . .	34,148	1,01,574	21,525	5,407	. ..	...	.. ..	637	... ..	... ..	...	...
Rungpore ..	577	...	577	317	......	... .	894	1,74,849	.. .	. ..	... ..	. ..		...	. ..	... ..	.	19,194
Bogra . .	41,660	... ..	44,060	. . ..	..	......	44,060	28,432	. .	..	.	. .	.. ..	. . .	......	. .		6
Pubna	42,071	......	42,971	401	1,319	... ..	44,691	5,71,220	1,004,080	1,246	9,459	.	75	.	......	. . ..	677	164
Darjeeling	..	......	... ..	......	. . ..	......	... ..	15,375	121,485	.. ...	. . ..	16,051	.. ..	. ..	....	.. ..	...	
Julpigoree	......	......	... .	... ..	..	......		54,417	258,405	... ..	... .	17,414		..	.	. .	.	826
Dacca	5,649	. ..	5,649	165	2,025	... .	7,839	6,70,155	3,185	. .	2,416	19	2,063		.. ...		..	..
Furreedpore ...	46,685	921	47,261	235	10,379	... ..	57,875	9,84,423	175	7,554	1,401	8	534	1,124	... ..	.	.	...
Backergunge ...	3,57,435	2,131	3,58,567	... ..	450	......	3,59,017	5,337	175	... ..	....	...	6	...	..	.		23
Mymensingh ..	2,673	..	2,673	......	292	......	2,965	79,613	......	... .	1,958	.. .	.	.. ..	.	..	15	.
Tipperah ..	24,850	. .	24,850	... ..	......	....	24,850	2,425	......	... .	... .			. . .	. ..	... ..	...	.
Chittagong ..	3,802	.. .	3,802	...	... .	......	3,802	98	..	..	. . ..	2,052	1,724	...	...	. . ..	.	..
Noakholly ..	27,505	300	27,782	353	250	.	28,385	70	. ...	150	...	...	625		.	.	.	.. .
Total of Bengal ..	13,65,711	1,30,503	14,47,332	21,773	1,58,897	3,408	16,31,410	35,84,251	2,540,789	69,373	22,800	36,131	7,253	2,869	10,952	47,960	8,479	21,835
BEHAR.																		
Patna ...	... ..	......	......	28,840	30,440	8,234	67,514	87	1,855	1,76,149	3,597	. .	323	6	673	595	1,185	789
Gya		......	...	468			408	... ..	1,575	2,900	...	.	...	.	410	201	...	167
Shahabad . ..	759	.. ...	759	27,185	4,184	398	32,520	... .	35	26,421	1,719	.				1,273	...	.
Mozufferpore ...	...	. . .	......	535	2,798	714	4,047	......	140	6,051	2,368	.		.	. ..	.	...	.. .
Durbhunga ...	1	.	1	1,000	3,461	303	4,708	. ...	420	67,204	6,0,1		. ..	... .	. .	710	122	35
Sarun	611	.	611	15,252	4,407	2,416	22,786	......	70	23,050	4,934	... ..	... ..	... ..	. .	.	13	.
Chumparun ..	8	.. ..	8	.. .	..	627	635	......	......	20,870	3,548	. .	.	... .	...	. . .	..	..
Monghyr	902	. .	902	7,933	33,580	391	4',896	28	700	15,018	3,661	.	..	.			...	3
Bhagulpore .	170	.	170	25,030	4,336	4,650	34,186	1,116	24	19,143	12,919		.	12	..			.. ...
Purneah	3,603	16	3,613	3,,08	7,555	163	14,639	5,213	105	4,751	5,485	..		.		60	1,348	...
Maldah		. .	..	14,092	11,048	2,659	27,797	35,979	350	5,770	208	... .	..	.	.	.	4	.
Sonthal Pergunnahs.	551	. ...	551	13,930	9,635	902	20,018	. .	665	8,058	1,398	.	..	129		.. .		. ..
Total of Behar ..	6,695	16	6,705	1,37,583	1,06,535	21,457	2,72,280	42,423	6,160	3,81,475	46,184	..	323	147	1,083	2,858	2,672	994
ORISSA.																		
Cuttack	28	..	28	. . .	284	.. .	312	....	.....	...	300	... .	..	...	.	. .		....
Balasore	34,193	589	34,501	1,769	745		37,075	.	3,500	106	144	..		9	.		386	... .
Total of Orissa ..	34,221	589	34,589	1,769	1,029	..	37,387	. .	3,500	106	144	.	. ...	9			386	
CHOTA NAGPORE.																		
Hazaribagh ..	.	... .	. ....	....	317	... ..	317	......	1,155	. .	... .	522	..	10	. .	.	...	.
Manbhoom ..	.	..	.. .	...	. ..	.	..	. .	630	.. .	.... .	.	..				..	
Total of Chota Nagpore.	..	.. ..	.	. ....	317	....	317	......	1,785	. ...	... .	522	. .	10		.	..	.
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	14,06,627	1,31,198	14,88,626	1,61,125	2,66,778	44,865	19,41,394	36,26,674	2,558,234	4,50,954	68,928	36,655	7,576	3,035	12,035	50,798	11,537	22,829
OTHER PROVINCES.																		
Assam ..	3,555	.. . .	3,555	.....	. . ..	.....	3,553	4,332	.. ..	...	12,682	1,21,271	70	14	. .	..	.	
North-Western Provinces and Oudh.	388	......	388	1,29,062	37,695	3,118	1,70,263	299	. ..	1,15,259	36,068	1,,87	1,718	18	3,260	2,805	2	37
Punjab .. .	2	......	2	4,050	16,576	.. ..	20,628	.	1,540	.. ..	471	1,329	993	......	. .	. .	.	2
Central Provinces	......	. ...	......	602	507	......	1,109	. . ..	350	... ..	.		...	2	.. .	..		..
Rajputana States	. . ..	.....	... ..	. ..	... ..	2	2	. ...		.. ..	...	...	24	.	.			..
Bombay ...	.. ..	... .	.. ..	. . ..		......	.	. ...	5,200	.... .	..		18,778	... .	2,960			4
Madras	. ..	... ..	..	... ..	12,737	.. .	12,737	.. .	400		...	...	. .	. .	3,660	... .	320	159
Burmah	16	. .	16	......	..... .	. ..	16	.. ...	14,450	... ..	...	.	.. .	. ..		..		45
Other places ..	... ..	... ..	... .	..	16		16		3,150	5	.	.. .	. .	8	38,617	75	30	. 1.
Grand Total of Imports in Oct. 1888	14,10,588	,31,198	14,92,587	2,94,839	3,34,309	27,985	21,40,810	36,31,305	2,583,324	5,66,218	1,18,149	1,60,642	29,159	3,077	60,532	53,678	11,884	23,392
Grand Total of Imports in Oct. 1887	8,48,617	1,18,145	9,22,458	1,80,566	3,84,184	40,638	15,33,846	24,98,027	2,191,387	6,17,228	1,11,841	1,39,976	25,809	1,970	90,418	35,951	40,679	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of October 1888 *was as follows :—*

Exported from Calcutta—	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Drained.	Undrained.	Unmanufactured.	Manufactured.
To Indian ports, viz.—																		
Bombay . .	4,91,052	30	4,91,071	674	17,801	200	5,09,306	......	2,044,300	......	......	654	......	9	1,489	...	...	4
Other ports in Bombay .	... .	......	......	......	.	...	... .	......	13,200	...	......	. .	. ..	...	... ..	......	.	
Madras	3,404	......	3,404	. ....	20,230	1,974	25,608	.. ...	101,600	... ..	.. .	5	. ..	342	......			
Other ports in Madras ...	77,296	3,067	79,213	101	6,370	.. .	85,084	8,785	270,600	......	... ..	3	.. ...	10	.	.		15
Burmah	19,810	......	19,810	4,224	24,659	3,362	52,055	48	211,200	....	......	46	.... .	9	...	395	12,163	2.2
Other Indian ports	1,724	......	1,724	3	773	......	2,500	... ..	120,135	.....	... ..	1	.... .	6	837	14	.053	94
Pondicherry ...	..	......	......	... .	101	.....	101	. .	40,500	. .	......	......	.	......	...	... .		..
Total of Inter-portal trade ...	5,93,286	3,097	5,95,222	5,002	69,494	5,536	6,75,254	8,833	2,811,085	... ..	......	709	.	376	2,326	409	12,216	345
To Foreign ports— United Kingdom	33,654	......	33,654	2,07,111	18,674	......	2,59,439	14,59,760	926,000	4,95,734	2,726	30,277	2,189	127	......	......		18
Other Foreign ports	6,39,636	11,394	6,46,757	1,06,749	37,898	7,191	7,98,525	4,23,316	9,533,000	2,60,752	54	127,007	3,404	1,144	275	.. ...	8,829	175
Total of Foreign trade	6,73,290	11,394	6,80,411	3,13,860	56,502	7,191	10,57,964	18,83,076	10,459,000	7,56,486	2,780	163,284	5,593	1,271	275		8,829	191
Grand Total of Exports in Oct. 1888	12,66,576	14,491	12,75,633	3,18,862	1,25,996	12,727	17,33,218	18,91,909	13,270,085	7,56,486	2,780	1,63,993	5,593	1,647	2,601	409	23,045	536
Grand Total of Exports in Oct. 1887	8,92,845	1,606	8,93,849	1,40,830	1,99,847	4,770	12,39,296	15,92,147	10,804,509	6,82,948	6,936	1,39,201	3,333	902	3,738	24	16,672	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of October 1888.

IMPORTS INTO CALCUTTA.

Specification of Routes.	Food-grains. Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains	Fibrous Products. Jute, raw.	Gunny-bags.	Oilseeds. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar. Drained.	Undrained.	Tobacco. Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	10,25,037	1,03,278	79,249	1,43,690	10,114	10,83,706	900,464	1,07,276	44,894	.	2,541	178	11,903	38,500	7,709	856
„ river steamers	55 611	93	770	635		5,52,052	...	2,136	13,769	1,18,400	1,112	272	296	1	178	4
„ rail { East Indian Railway	1,20,285	24,188	2,12,159	1,12,389	17,005	... ..	22,505	4,33,786	56,126	3,797	2,941	844	959	5,814	222	405
„ rail { Eastern Bengal State Railway.	1,29,614	727	592	64,175	866	17,56,656	1,542,905	22,878	3,226	36,393	2,363	1,766	... ..	8,084	...	21,384
„ road	36 345	2,728	.	16	......	2,36,205	30,751	36	... .	. ....	... .	... ..	2,047	1,204	2,984	223
„ sea	36,796	184	1,769	13,498	. ..	96	26,700	111	144	2,052	20,202	17	45,237	75	736	520
Grand total of Imports in October { 1888 .	14,10,588	1,31,198	2,94,830	3,34,399	27,985	36,31,305	2,583,324	5,66,218	1,18,149	1,60,642	29,159	3,077	60,532	53,678	11,889	23,392
Grand total of Imports in October { 1887 ...	8,48,617	1,18,145	1,80,566	3,84,184	46,638	24,08,027	2,191,387	6,17,228	1,11,841	1,39,975	25,809	1,970	90,418	35,951	40,679	

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of October 1888.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian	Salt.	Gunny-bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan .	2,73,189	220	423	573	15,591	1,23,194
Beerbhoom ..	72,324	1,210	116	444	11,058	45,535
Midnapore	2,27,414	.	3,419	... .	35,735	21,700
Hooghly .	1,06,802	6,450	758	96	4,793	87,315
24-Pergunnahs	1,38,974	8,412	586	. . ..	9,551	5,450
Nuddea	3,90,831	441	2,504	......	18,594	67,654
Khulna	62,807	... .	155	.. ..	3,625	70
Jessore	1,54,136	. .	9 8	..	22,468	2,195
Moorshedabad .	90, 42	660	46	...	13,203	12,595
Dinagepore ...	1,44,522	.. .	202	40	6,110	9,170
Rajshahye ...	2,67,887	. .	62	49	20,994	17,100
Rungpore ..	3,51,477	..	306	50	13,112	1,295
Bogra ...	2,04,750	. .	66	14	3,060	10,230
Pubna ...	3,20,566	.. ...	543	17	40,761	455
Darjeeling ...	1,13,778	......	74	19	5,307	175
Julpigoree ..	1,13,652	. ..	20	.. .	4,022	..
Dacca ..	7,58,297	...	1,102	598	34,590	8,040
Furreedpore ...	4,.1 595	63	1,677	.. ..	35,702	7,105
Backergunge ...	1,24,121	.. ..	2,372	......	27,405	500
Mymensingh ..	1,65,249	......	92	.. ..	16,700	350
Tipperah ...	.	... ..	......	... .	8,600	
Chittagong ...	89,337	. .	75	10	450	68,550
Noakholly .	...	.. ..	.. .	..	3,575	.
Total of Bengal .	46,22,150	17,456	15,536	1,910	3,51,621	498,358
BEHAR.						
Patna ...	4,35,456	440	237	308	41,831	108,130
Gya ..	1,17,873	300	29	406	11,386	810
Shahabad ..	2,39,967	. ..	11	592	13,485	124,180
Mozufferpore ..	1,22,976	.	.....	67	3,831	2,905
Durbhunga ..	4,49,883	.	13	899	28,429	64,180
Sarun ..	3,44,799	600	5	18	8,662	15,410
Chumparun ...	4,53,726	110	33	67	7,722	22,260
Monghyr ...	88,641	550	11	338	5,660	22,760
Bhagulpore .	1,19,007	9,240	24	423	15,436	29,755
Purneah ..	1,50,318	1,760	255	936	14,564	2,485
Maldah	.		..	..	7,930	1,550
Southal Pergunnahs	2,03,868	5,610	134	618	22,863	26,215
Total of Behar ..	27,26,514	18,700	752	4,762	1,84,205	421,070
ORISSA.						
Cuttack ...	... ..	......	.. ...	.....	...	2,500
Balasore ...	1,56,980	...	4,491	24	2,071	58,085
Total of Orissa ...	1,56,980	... ..	4,491	24	2,071	60,585

Whither exported.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian.	Salt.	Gunny-bags.
CHOTA NAGPORE.	Rs.	Rs.	Mds.	Mds.	Mds.	No.
Hazaribagh	39,816	550	. . ..	78	5,395	280
Manbhoom	44,730	7,040	78	1,313	9,523	2,730
Total of Chota Nagpore	84,546	7,590	78	1,391	14,918	3,010
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ..	75,90,190	43,746	20,857	8,087	5,52,815	983,023
OTHER PROVINCES.						
Assam	3,09,450	... .	108	231	57,248	......
North-Western Provinces and Oudh . . .	26,92,368	5,720	2,788	390	23,681	394,485
Punjab	16,22,754	7,370	960	14	...	242,690
Central Provinces	41,895	...	163	70	. .	61,950
Rajputana States	38,931	110	140	... ..	..	49,245
Berar	189	... .	... ..	. . .		...
Nizam's Territory	120	... .	...	... .	..	..
Bombay	680	... ..	.	... .	... .	2,059,295
Madras	47,065		459	77	... .	372,250
Pondicherry		..	.. .	. ..	.. ..	40,500
Burmah	2,79,733	... ..	471	1,135	. .	211,200
Sind	.	110		. . ..	......	
Other places	18,096	6,314	28	3,500	54	10,459,000
Grand Total of Exports in October } 1888 ...	1,26,41,465	63,370	25,974	13,504	6,33,798	14,873,638
Grand Total of Exports in October } 1887 ...	1,30,50,857	53,099	27,398	11,474	6,13,682	11,989,930

The Sea-borne Trade of Calcutta in these Staples during the month of October 1888 *was as follows*:—

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	1,26,31,925	..	13,927	...	4,44,964	.... .
Other Foreign ports ...	23,472	... .	388	. ..	1,40,177	3,150
Total of Foreign Trade ...	1,26,55,397	......	14,315	.....	5,85,141	3,150
From Indian Ports—						
Bombay	21,180	2,80,191	......	7,817	39,989	5,200
Madras	2,100	11,738	......	530	.	.... .
Other ports in Madras ...	300	507	.. ..	...	... ..	400
Burmah . ..	5,360	560	4	231	. ...	14,450
Other Indian ports .	...	.. ..	......	.. .	......	3,500
Total of Interportal Trade ..	28,940	1,92,996	4	8,578	39,989	23,550
Grand Total of Imports in October { 1888 .	1,26,84,337	1,92,996	14,319	8,578	6,25,130	26,700
Grand Total of Imports in October { 1887 ..	99,07,580	1,20,667	15,462	7,584	9,70,788	41,250

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of October 1888.

Specification of Routes.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian.	Salt.	Gunny-bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,75,385	6,600	3,609	.....	3,10,175	125,325
river steamers	6,47,972	.. .	1,352	687	28,173	51,508
rail ... { East Indian Railway	75,08,442	41,690	5,440	7,674	2,29,932	1,312,535
rail ... { Eastern Bengal State Railway	34,99,272	504	9,547	331	60,601	111,755
road	1,58,713	8,262	554	69	3,842	2,435
sea	5,91,701	6,314	5,472	4,746	1,086	13,270,085
Grand Total of Exports in October ... { 1888 ..	1,26,41,485	63,370	25,994	13,504	6,33,798	14,873,638
Grand Total of Exports in October ... { 1887 ...	1,30,50,857	53,099	27,398	11,474	6,13,682	1,19,89,930

STATISTICAL DEPARTMENT,
The 2nd February 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 31ST JANUARY 1899.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	12 4	13 4	15 0	37 8	...	...	15 12	16 8	15 0	18 0	18 12	22 8	...	...	...
2	Bankoora	12 4	12 4	13 0	14 8	14 8	18 0	17 8	16 4	18 8	21 0	20 8	19 3½		.	..
3	Beerbhoom*		.	...	...	..	...	...	...	...	..	...	...	...	...	...
4	Midnapore	13 5	13 5	15 0	40 0	40 0	...	15 0	14 0	18 0	20 0	20 0	22 0	...	.	...
5	Hooghly	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0	13 0	13 0	16 0	.	.	...
	Howrah	Not available.			..	...	...	12 0	12 0	13 12	14 8	17 12	19 8	.	.	...
	Central Districts.															
	Calcutta ...	12 9	12 13	13 1	15 11	16 0	22 13	9 10	9 13	10 7	14 14	14 11	16 13	17 8	17 12	15
6	24-Pergunnahs*	...	...	...	...	...	.	...	.	..	..	...	..	...	...	...
7	Nuddea	13 14	14	16 0	22 14	22 14	·2 0	12 5	12 5	14 8	17 1½	17 10	18 3	...	.	...
8	Khoolna .	...	.	...	.	.	..	14 4	16 0	18 0	16 0	18 0	21 8	...	...	...
9	Jessore .	12 0	11 12	13 4	.	.	.	11 0	13 4	18 0	17 0	17 0	22 0	...		...
10	Moorshedabad	13 5	13 8	·6 0	..	.	.	13 5	13 8	*16 0	17 0	18 0	22 0	...		...
11	Dinagepore	12 0	12 0	15 4	12 0	12 0	22 8	14 6	16 0	19 0	17 1	19 3	25 0	...	.	...
12	Rajshahye	12 0	16 8	17 4	26 4	26 4	45 0	·3 8	15 0	16 8	15 0	16 8	21 0	...	..	...
13	Rungpore	12 4	12 4	14 8			...	10 8	10 8	14 4	16 12	16 0	22 12	...	...	...
14	Bogra	7 14	9 15	16 8	.	..	...	12 0	13 8	15 0	18 12	18 12	26 4	..	.	...
15	Pubna	16 8	15 0	19 8	.			7 12	8 0	8 4	18 0	17 4	24 8		.	...
16	Darjeeling	10 0	10 0	10 0	10 0	10 0	11 0	5 0	5 0	5 0	13 0	12 0	12 0	..	...	...
17	Julpigoree	10 0	10 0	13 4	16 0	16 0	20 0	8 0	8 0	12 0	18 0	19 0	2· 0	.	..	...
	Eastern Districts.															
18	Dacca* ..	...	...	...	..	.	...	...	...	...	..	..	...	...	...	...
19	Furreedpore ...	...	8 0	18 0	18 0	18 0	40 0	8 0	10 0	16 0	16 0	16 ..	21 0	...	...	...
20	Backergunge*...	.	..	..	.	...	..	...	...	...	...	...	...	...	...	...
21	Mymensingh ...	9 0	8*12	12 0	.	..	...	12 0	12 0	12 0	19 0	20 0	18 8	...	...	...

* Price-current return not received.

A In sub-divisions retail prices of salt per rupee are.—Culna 10 seers, Cutwa 9 seers 15 chittacks, and Raneegunge 10½ seers.
B In sub-divisions retail prices of salt per rupee are:—Ghatal 10½ seers, Contai 10½ seers.
C At Jehanabad retail price of salt 10 seers per rupee.
D In sub-divisions retail prices of salt per rupee are:—Kooshtea, Chooadanga, and Ranaghat 10 seers, and Meherpore 10½ seers.
E In sub-divisions retail prices of salt per rupee are:—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
F In sub-divisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura and Bongong 10 seers, and Narail 7½ seers.

31st June 1889.

SEERS OF 80 TOLAHS.

Bajra or Cumbu (*Pennisetum typhoideum*.) Present return.	Next preceding return.	Corresponding return of last year.	Marua or Ragi (*Eleusine Coroсana*.) Present return.	Next preceding return.	Corresponding return of last year.	Kangni or Kakun, Italian millet (*Setaria italica*.) Present return.	Next preceding return.	Corresponding return of last year.	Gram, Chana, Chhola, Kadalay or Sunaga (*Cicer arietinum*.) Present return.	Next preceding return.	Corresponding return of last year.	...NTH. Common mason, carpenter, or blacksmith. Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS
S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch	S Ch	S. Ch	S. Ch.	S. Ch.	...s. A.	Rs. A.	Rs. A.	
															BENGAL. *Western Districts.*
...	...	..	...			..			16 0	17 0	19 0	) 0 to 5 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
...	..					...	...	..	11 8	14 8	17 8	3 0 to 5 0	7 0 to 15 0	7 0 to 15 0	Bankoora.
...		..	...	.		.	. .	...	...	...	...	2 0	7 8 to 10 0	7 8 to 10 0	Beerbhoom.
...	..		...			..	.	.	14 0	14 0	18 0	7 8 to 12 0	7 8 to 11 4	7 8 to 10 0	Midnapore.
		...	.						13 0	13 0	20 0	8 0 to 10 0	15 0 to 25 0	12 0 to 25 0	Hooghly.
...	.	...	...	.	..	..		..	15 8	15 8	20 0	1 0 to 0	12 0 to 25 0	12 0 to 25 0	Howrah.
															Central Districts.
12 6	13 5	11 9	...	...	11 1	16 10	14 3	12 3	14 15	14 15	19 5	0	15 0 to 20 0	15 0 to 20 0	Calcutta.
...	...	..	...	..	.	.	.	..	...	..	..	0 to 0	15 0 to 25 0	15 0 to 20 0	24-Pergunnahs.
...	.					.	...		16 0	15 4	22 14	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	Nuddea.
...	...								16 0	16 0	16 0	0 to 0	15 0 to 30 0	10 0 to 16 0	Khoolna.
...	.	...				.	. ...		15 0	15 0	20 0	0 0 to 5 0	10 0 to 15 0	15 0	Jessore.
...	...		...	..	.	...	...	...	16 0	16 0	22 8	.	...	...	Moorshedabad.
..	...	...	.			.	...		11 0	11 0	17 4	0 to 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
...		...	..			.	.	.	15 0	15 0	20 4	0 to 0	8 0 to 14 0	8 0 to 14 0	Rajshahye.
..	.							.	10 0	10 0	21 0	0 to 0	8 0 to 20 0	12 0 to 15 0	Rungpore.
...	...		.	.		..	...	..	9 12	10 14	12 0	0 to 0	10 0 to 2) 0	10 0 to 22 0	Bogra.
..	...	...	.	.	...	...	...	...	15 0	12 0	26 4	0 to 0	8 0 to 20 0	12 0 to 20 0	Pubna.
...	...	...	14 0	14 0	15 0	...	...	...	10 0	10 0	11 0	0 to 0	12 0 to 22 0	12 0 to 22 0	Darjeeling.
-	..		...		...	...	...	...	11 0	11 0	20 0	0	15 0 to 16 0	12 0 to 16 0	Julpigoree.
															Eastern Districts.
...	-	...	.	..	...	...	...	..	...	...	...	0 to .0 0	8 0 to 20 0	8 0 to 20 0	Dacca.
...	...	...	...	...	.	...	...	...	16 0	12 0	16 0	10 0 to 15 0	10 0 to 15 0	12 0 to 15 0	Furreedpore.
...	...	...	...	...	...	...	...	...	...	...	...	J 0 { 10 0 to 15 0	12 0 to 15 0	12 0 to 15 0	Backergunge.
...	...	...	...	...	...	...	...	...	12 8	12 4	18 8	6 0 to 7 0 / 12 0 to 30 0	12 0 to 30 0	12 0 to 30 0	Mymensingh.

, Kandi 9 seers 2 chittack, and Jungipore 10 seers.
...ers and Nowgong 8 seers 11 chittacks.
...ers, Kurigram 9 seers.

L At Silliguri and Kurseong retail price of salt 8 seers per rupee.
M At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee.
N In sub-divisions retail prices of salt per rupee are :—Kishoregunge and Netrokona 8 seers, Attea 10 seers, Jamalpore 9¼ seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.			Jowar or Cholum. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 15	...	...	...	12 0	12 0	15 0	16 3	16 3	18 15	...	...	...
23	Noakholly ...	...	...	...	...	...	...	16 0	18 0	20 0	18 0	20 0	22 0	...	...	...
24	Tipperah ...	12 8	12 8	13 8	...	...	...	17 0	16 0	17 8	20 0	20 0	26 4	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6¾	11 6¾	14 8½	14 8¼	14 8½	16 0	...	...	...
	Hill Tipperah ...	6 0	6 0	12 0	...	...	...	10 0	9 0	16 0	19 0	18 0	27 0	...	...	...
	BEHAR.															
26	Patna ...	17 0	16 0	17 0	21 0	20 8	30 0	11 0	11 0	11 8	15 8	15 8	22 0	21 0	21 0	26 0
27	Gya ...	13 8	13 8	13 4	15 0	16 0	24 0	9 8	9 8	10 0	15 0	15 8	17 8	...	...	...
28	Shahabad ...	15 4	14 8	12 12	17 0	18 0	24 0	9 0	10 0	12 8	14 4	15 4	17 8	18 4	18 8	22 0
29	Durbhunga ...	12 0	15 4	16 7	16 8	17 8	38 7	11 0	10 8	14 0	14 0	13 12	20 13	...	...	...
30	Mozufferpore ...	12 0	12 0	13 0	...	18 0	30 0	9 0	9 0	12 0	13 0	12 0	20 0	...	...	...
31	Sarun ...	15 0	15 0	14 8	20 8	20 8	24 8	8 8	8 8	8 8	13 5	13 10	19 8	...	...	...
32	Chumparun ...	12 0	13 0	13 0	19 0	20 0	32 0	9 0	7 8	12 0	13 0	13 0	19 0	...	...	...
33	Monghyr ...	15 3	14 11	16 13	...	...	25 4	14 0	12 9	13 14	17 1	15 4	17 13	...	...	...
34	Bhagulpore ...	15 2	15 2	15 2	17 10	12 10	25 4	14 15	New 15 2, Old 11 0	16 6	16 13	New 16 6, Old 15 2	18 15	..	...	...
35	Purneah* ...	...	...	...		..	...	.	...	...	...	...	.	...	...	...
36	Maldah ...	13 0	13 8	18 0	...	...	...	13 0	12 8	12 0	16 0	17 5	22 0	...	...	...
37	Sonthal Perghs.	11 8	11 8	12 0	...	...	..	12 8	12 8	16 0	18 0	18 0	22 0	...	...	...
	ORISSA.															
38	Cuttack ...	13 2	11 13	15 12	...	...	...	11 13	11 13	13 2	18 6†	19 11	19 11	..	...	...
39	Pooree ...	13 2	11 13	14 7	...	...	...	13 2	13 2	15 12	18 6	21 0	23 10	...	...	...
40	Balasore .	13 0	12 0	15 0	13 0	13 0	13 0	12 0	12 0	15 0	19 8	22 0	24 0	...	...	..
	CHOTA NAGPORE. *South-West Frontier Agency.*															
41	Hazaribagh ...	12 0	12 0	10 0	9 0	9 0	20 0	8 0	8 0	9 8	16 0	15 0	16 0	Not procurable.		
42	Lohardugga ...	10 8	10 8	12 0	Not available			13 0	12 0	16 8	16 8	16 0	19 0	...	...	...
43	Singbhoom ...	10 0	10 0	12 0	14 0	14 0	26 0	16 0	16 0	12 0	20 0	20 0	20 0	...	...	...
44	Manbhoom ...	10 14	11 14	12 0	30 0	...	34 0	14 0	12 8	19 0	21 0	21 0	22 0	...	...	...

* Price-current return not received.

† Common rice at Jajpore 23 seers 10 chittaks per rupee and Kendrapara 27 seers 9 chittaks per rupee.

O At Cox's Bazar retail price of salt 8 seers per rupee.

P At Panchgachia retail price of salt 8 seers per rupee.

Q In sub-divisions retail prices of salt per rupee are :—Buxar 10½ seers, Bhabooah 9½ seers, and Sasseram 10½ seers.

R In sub-divisions retail prices of salt per rupee are :—Madhubani 10 seers and Tajpore 10½ seers.

S At Hajipore and Sitamarhi retail price of salt 10 seers per rupee.

CALCUTTA,
The 5th February 1889.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoidenum.*) Present return.	Next preceding return.	Corresponding return of last year.	Marua or Ragi. (*Eleusine Corocana.*) Present return.	Next preceding return.	Corresponding return of last year.	Kangni or Kakun. Italian millet. (*Setaria italica.*) Present return.	Next preceding return.	Corresponding return of last year.	Gram, Chana, Chhola, Kadalay, or Sunaga. (*Cicer arietinum.*) Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...	...	...	...	11 10	11 10	14 0
...	...	...	...	...	...	...	...	...	12 0	12 0	13 0
...	...	...	...	...	...		...	...	16 0	16 0	16 0
...	...	...	...	...	...		...	...	...	...	...
...	...	...	...	...	...	...	...	...	10 0	10 0	12 0
...	...	...	...	...	...	15 0	16 0	30 0	19 0	19 0	21 0
...	...	...	...	...	...	14 0	15 0	19 0	17 0	17 0	22 0
...	...	...	...	...	...	...	...	...	19 0	18 0	20 0
...	...	...	19 0	19 12	35 2	22 0	17 8	...	18 0	17 8	17 8
...	...	...	...	...	30 0		...	...	16 0	16 0	19 0
...	...	...	20 0	20 0	32 8	15 0	15 0	19 0	17 8	17 8	20 2
...	...	...	20 0	20 0	32 0	...	...	...	14 0	14 0	18 0
10	...	...	...	...	...	11 9	10 8	21 0	18 10	17 13	24 2
...	...	...	...	...		...	...	...	16 6	16 6	20 3
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...		...	...	...	...	...	14 0	13 8	22 0
...	...	...	...	...	...	...	...	...	13 8	14 0	21 0
...	...	...	...	...	...	...		.	19 11	18 6 (Kalai)	19 11
...	...	...	...	...	...	...	...	...	17 1	13 2 (Kalai)	17 1
...	...	...	...	...	...	...	...	...	12 8	13 0	17 0
Not procurable.			20 0	20 0	24 0	Not procurable.			15 0	15 0	16 0
...	...	...	26 8	27 0	34 0	...	...	...	12 0	14 0	16 0
...	...	...	...	...	...	...	...	...	12 0	12 0	12 0
...	...	...	...	...	...	...	...	...	13 5	13 5	17 0

...ry 1889—(concluded).

...or last year.	MONTH. Common Mason, Carpenter, or Blacksmith. Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
				Eastern Districts—concluded.
A.	Rs. A.	Rs. A.	Rs. A.	
8	9 0 to 11 8	9 0 to 11 4	9 8 to 12 8	Chittagong.
0 / 0 / 0	7 0 to 20 0	8 0 to 15 0	7 0 to 20 0	Noakholly.
0	12 0 to 15 0	8 0 to 15 0	12 0 to 15 0	Tipperah
...le				Chittagong Hill Tracts.
...	15 0	15 0	15 0	Hill Tipperah.
				BEHAR.
8 / 0	6 0 to 8 0	7 8 to 8 0	6 0 to 8 0	Patna
8 / 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 3	Gya.
...	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	Shahabad.
...	3 12 to 9 8	3 12 to 9 8	3 8 to 8 8	Durbhunga.
...	5 0 to 8 0	5 0 to 8 0	5 0 to 8 0	Mozufferpore.
...	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0	Sarun.
0	5 10 to 9 6	5 9 to 9 0	7 8	Chumparun.
...	6 0 to 8 0	5 0 to 12 0	6 0 to 8 0	Monghyr.
...	6 9 to 11 4	5 10 to 11 4	6 9 to 11 4	Bhaugulpore.
...	7 0 to 16 0	7 0 to 16 0	7 0 to 16 0	Purneah.
...	8 0 to 10 0	7 0 to 12 0	7 0 to 15 0	Maldah
...	7 8 to 9 6	7 8 to 9 6	7 8 to 9 6	Sonthal Perghs.
				ORISSA
	7 8 to 10 0	7 8 to 10 0	7 8 to 10 0	Cuttack.
	8 0 to 10 0	8 0 to 10 0	8 0 to 10 0	Pooree.
	7 8 to 12 8	7 8 to 10 0	7 8 to 9 6	Balasore
				CHOTA NAGPORE *South-West Frontier Agency.*
	7 8	8 0	7 8	Hazaribagh
	6 0 to 12 0	4 11 to 14 1	6 0 to 13 0	Lohardugga.
	12 0 to 15 0	14 0 to 15 0	10 0 to 13 0	Singbhoom.
	13 2 to 15 0	3 2 to 14 1	11 0	Manbhoom.

U In sub-divisions retail prices of salt per rupee are :—Beguserai 9¼ seers and Jamui 9 seers.
V At Bhudruck retail price of salt 8 seers per rupee.
W At Govindpore retail price of salt 9 seers per rupee.

Published for general information

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 14 10	2 13 10	2 13 5	2 5 2	2 4 3	1 7 7	3 14 5	3 14 4	3 11 3	2 7 1	2 7 8	2 2 1
2	Serajgunge ...	2 10 0	2 4 0	2 4 0	...	...	...	3 12 0	3 8 0	3 6 0	2 10 0	2 6 0	1 14 0
3	Dacca* ...	...	...	...	...	...	...	...	...	...	...	...	...
4	Naraingunge*	...	...	...	...	...	...	...	...	...	...	...	...
5	Chittagong ...	3 9 0	3 9 0	3 10 0		...	...	3 4 0	3 4 0	2 10 0	2 7 0	2 7 0	2 2 0
6	Patna ...	2 5 0	2 7 0	2 3 6	1 13 0	1 14 6	1 4 6	3 8 0	3 8 0	3 0 0	2 7 0	2 7 0	1 12 0
7	Balasore ...	3 0 0	3 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	2 8 0	1 14 0	1 10 0	1 10 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	2 0 6	1 14 0	1 8 0
9	Cuttack ...	3 0 0	3 4 0	2 5 0	...	...	...	3 4 0	3 4 0	3 0 0	2 2 0	2 0 0	2 0 0

* Return not received

CALCUTTA,
The 4th February 1889.

undermentioned Marts of Bengal on the 31*st January* 1889.

Gram, Chana, Chhola, Kamalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 7 0	2 6 10	1 13 10	2 0 8	2 0 0	1 7 6	2 2 9	2 3 1	1 14 1	0 5 9	0 6 0	0 6 9	3 10 2	3 10 0	3 1 9	Calcutta.
3 6 0	3 4 0	2 14 0	...	...	...	...	...	...	...	...	...	3 11 0	3 10 0	3 5 0	Serajgunge.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dacca.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Naraingunge.
3 4 0	3 4 0	2 12 0	...	...	...	...	...	...	0 5 3	0 5 3	0 5 0	3 14 0	4 4 0	4 0 0	Chittagong.
2 1 0	2 1 0	1 13 0	1 13 0	1 4 6	1 4 6	1 10 0	1 12 0	1 11 0	0 5 0	0 5 0	0 5 0	3 12 0	3 13 3	3 1 6	Patna.
3 0 0	3 2 0	2 4 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 0	3 13 6	3 13 6	4 2 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 8 0	Pooree.
2 0 0	(*Kalai*). 2 2 0	2 0 0	...	...	...	2 0 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	4 0 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	30·041	30·054	—	Calm	193	91·2	1st Feb.	63·2	1st Feb.	84 0	69·5	76·8	—	73·3
		Gopalpore ..	30·025	30·075	+·043	NW	315	83·2	1st ,,	68·9	1st ,,	81·8	71·8	76·8	+5·0	76·8
		False Point ...	30·038	30·060	—·009	Calm	240	83·9	1st ,,	64·0	27th Jan.	82·4	67·9	75·1	+4·2	73·9
	Cuttack	Cuttack ...	29·981	30·065	+·014	Calm	25†	91·9	1st ,,	64·8	1st Feb.	89·5	67·5	78·5	+4·7	71 0
	Balasore	Balasore ..	30·017	30·078	—·006	S	123·8	88 4	1st ,,	60·1	26th Jan.	84·5	64·3	74·4	+5·7	69 3
South-West Bengal.	South-West Midnapore; South 24-Pergunnahs	Saugor Island	30·050	30·077	+·006	NE	274	84 2	1st ,,	59·9	27th ,,	81·4	65·3	73 5	+3 8	67·6
	Midnapore	Midnapore ...	29·920	30·077	—·013	N	94·1	87·3	1st ,,	57·2	26th ,,	85·2	63·3	74 3	+7·3	67·4
	24-Pergunnahs ... ...; Howrah ... ...; Hooghly	Calcutta ..	30·054	30·077	+·027	SSE	72	83 5	1st ,,	55·8	27th ,,	80·6	60·2	70·4	+2 7	65·0
	Burdwan	Burdwan ..	29 965	30·071	+·012	Variable	44·1	85·5	30th Jan.	54·5	26th & 27th Jan.	82 6	59 2	70 9	+3·4	63·2
	Bankoora	Bankoora ...	29·743	30·061	—	Calm	97	85 6	30th ,,	54·8	26th ,,	81·9	60 2	71 1	—	63·8
	Beerbhoom ... ...; West Burdwan	Raneegunge	29·736	30·062	+·015	Northern	84·9	83·0	29th ,,	55·2	26th ,,	80·4	60·0	70·2	+4·0	64·2
	Moorshedabad	Berhampore	30·017	30·087	+·030	Westerly	66 7	83·4	30th ,,	52·7	27th ,,	77·5	56·9	67·2	+1·0	60 5
	Nuddea	Krishnaghur	30·029	30 099	+·058	Variable	95·9	84·8	30th ,,	49 9	26th ,,	80 5	56 3	68 4	+5·6	62 6
	Jessore ... ...; Khoolna	Jessore ..	30·040	30·081	+·028	Calm	59·0	83 2	30th ,,	53 5	27th ,,	81·2	57 9	69·6	+2·9	63·2
East Bengal.	Chittagong	Chittagong .	29·984	30·079	+·024	Calm	58·4	85·6	31st ,,	53·7	27th ,,	83 3	58 4	70 9	+1 2	63·3
	Chittagong Hill Tracts	Demagiri ..						Observations not received.								
	Backergunge	Barrisal ..	30·058	30 071	+·083	NW	68·5	83·3	1st Feb.	53·1	27th Jan	80·7	57·9	69 3	+5·6	66·8
	Noakholly	Noakholly ...	30·028	30·073	+·089	Calm	9·1	83·0	31st Jan.	49·0	27th ,,	81·3	54·3	67·8	+3·8	63 9
	Furreedpore	Furreedpore..	30·034	30·075	+·018	Northerly	71	81 3	1st Feb.	50·5	27th ,,	74 6	55 4	65·0	+1·5	61 4
	Dacca	Dacca ...	30·035?	30·058?	+·019?	Variable	75·3	83·1	30th Jan.	54·3	28th & 29th Jan	81·0	57·5	69 2	+2·0	63·1
	Commillah	Commillah ...	30·030	30·067	+·018	NW	57·6	84·4	1st Feb.	51·1	27th & 28th Jan.	82·3	54 7	68 5	+3·0	61·7
	Mymensingh	Mymensingh..	30·017	30 078	+·007	Calm	58·4	79 9	30th Jan.	50·1	28th ,,	77·2	54 1	65·7	+2·2	58·7
North Bengal.	Bogra	Bogra .	30·005	30·072	+·042	W	56 8	81·6	30th ,,	48·9	26th ,,	76 1	54·0	65 1	+2·4	59 8
	Pubna	Serajgunge ..	30·014	30·063	+·007	WNW	85 8	80 3	30th ,,	48·0	26th ,,	76 8	53·7	65 3	+2 5	59·3
	Rajshahye	Rampore Beauleah.	30 012	30·086	+·030	N	74 6	80 1	30th ,,	50 7	28th ,,	75 6	55 1	65 3	+3 5	60 3
	Maldah ..	Maldah* ..	30·036	30·121	—	NW	83 8	80 6	28th & 30th Jan.	49·9	27th ,,	79·8	53 7	66 8	—	63·2
	Dinagepore	Dinagepore ..	29 962	30·091	+·048	WSW	68	81 6	30th ,,	46·3	27th ,,	73 9	52 5	63 2	+2·0	58·8
	Rungpore	Rungpore ..	29·944	30 078	+·039	Variable	61	79 8	30th ,,	46 0	26th ,,	73·4	52·0	62 7	+2 8	56 9
	Julpigoree ... ...; Cooch Behar	Julpigoree ...	26·770	30·075	+·044	Westerly	45 7	78·5	26th ,,	46 2	29th ,,	73 2	51·2	62 2	+1·8	58 5
	Darjeeling Hill Tracts ...	Darjeeling ...	22·988	—	+·076	ESE	129	50·1	30th ,,	33·5	1st Feb.	46·2	36·0	41·1	+2·4	39·8
North Behar.	Purneah ... ..; North Bhagulpore ...	Purneah ..	29·946	30·084	+·037	Variable	50·5	79 2	31st ,,	46 5	27th Jan	74·1	51·4	62·8	+0·6	50·5
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga ..	29 911	30·031	+·045	WSW	106	72·2	26th Jan.	51·4	26th Jan.	69·1	55·5	62 3	−0·4	56·8
	Chumparun ...	Motihari† ...	29·832	30·127	+·094	Calm	66 4†	71·7	29th ,,	44·9	28th ,,	68 3	46 5	57 4	−1·6	53·6
	Sarun	Chupra* ...	29·904	30·112	+·048	E	41 5	63 5	29th ,,	49·5	27th ,,	58·9	53·1	56·0	−5·5	58·9
South Behar.	Shahabad	Dehree ..	29·705	30·082	—·007	SW	195 8	81·3	30th ,,	53·0	27th ,,	77·7	55·8	66·8	+5 0	60·6
		Buxar ..	29·825	30·085	+·003	Variable	133·0	78 4	30th ,,	47·4	26th ,,	72·3	53·8	63·0	+1·4	57·4
		Arrah ..	29 863	30·079	+·020	E	32·5	78 3	30th ,,	47·9	27th ,,	71·9	52·8	62 4	+1·6	58·9
	Gya	Gya ...	29·701	30·104	+·028	NE	137·0*	82·8	30th ,,	51 8	26th ,,	77·2	57 1	67 2	+2 2	60 7
	Patna ...	Bankipore ..	29·895	30 093	+·017	E & W	68·0	78 3	30th ,,	48 2	28th ,,	70 8	53 4	62·1	+0·3	57·1
	South Bhagulpore ..; Monghyr .. .	Bhagulpore ..	29·905	30·077	+·008	Westerly	63	78 3	30th ,,	51·0	26th & 27th Jan.	71·5	54·4	63 0	+1·0	59 4
	Sonthal Pergunnahs .	Doomka ..	29·561	30 091	+·060	Calm	94 6	81 6	30th ,,	51·9	26th ,,	76 5	56 5	66 5	+3·0	60·6
Chota Nagpore.	Hazaribagh	Hazaribagh	27 995	30 088	+·013	SSE	212·8	81·6	30th ,,	50·7	26th ,,	76·5	55·6	66 1	+3·6	60·5
	Lohardugga ... ...; Manbhoom ...	Ranchee ..	27 873	30·076	+·001	Southerly	120·8	82·5	29th ,,	49·9	26th ,,	79·2	55·0	67 1	+5·8	63·4
	Singbhoom ...	Chyebassa ..	29·291	30·088	+·062	Calm	17·4	83·0	29th & 31st Jan.	55·1	26th ,,	85 0	60·1	72 6	+5·8	66·1

* Means of six days.
† Do. of five ,,

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 1st of February 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
80	1·6	Nil	Nil	0·16	Nil	0·31	−0·31	44·12	55·66	−11·54	0·0	0·4	Pooree	Pooree	Orissa.
74	0·1	Nil											Gopalpore		
87	1·9	Nil											False Point		
81	0·9	Nil	0·08	0·20	0·08	0·39	−0·31	51·87	52·03	−0·16	0·4	0·4	Cuttack	Cuttack	
84	0·4	Nil	0·08	0·27	0·08	0·48	−0·40	52·95	53·37	−0·42	0·2	0·4	Balasore	Balasore	
89	0·7	Nil	Nil	0·17	Nil	0·46	−0·46	54·99	62·42	−7·43	0·0	0·4	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
79	0·9	1·62	0·71	0·23	0·71	0·55	+0·16	62·20	51·61	+10·59	0·7	0·5	Midnapore	Midnapore	
85	0	0·15	0·43	0·22	0·43	0·58	−0·15	62·62	51·74	+10·88	1·9	0·5	Calcutta	24-Pergunnahs; Howrah; Hooghly	
75	3·0	0·36	0·56	0·24	0·56	0·52	+0·04	56·18	46·83	+9·35	1·0	0·5	Burdwan	Burdwan	
79	2·4	0·54	0·51	0·19	0·51	0·42	+0·09	52·24	52·28	+0·04	1·3	0·4	Bankoora	Bankoora	
74	4·9	1·25	1·32	0·16	1·59	0·50	+1·09	58·08	51·67	+6·41	1·5	0·4	Raneegunge	Beerbhoom; West Burdwan	
92	5·1	1·04	1·00	0·09	1·94	0·47	+1·47	48·76	50·59	−1·83	1·0	0·4	Berhampore	Moorshedabad	
85	3·9	1·06	1·29	0·18	1·29	0·43	+0·86	54·74	49·23	+5·51	1·4	0·4	Krishnaghur	Nuddea	
80	2·7	0·59	0·59	0·24	0·60	0·60	0	44·49	53·34	−8·85	1·9	0·5	Jessore	Jessore; Khoolna	
83	1·9	0·54		0·23		0·70			113·61			0·5	Chittagong	Chittagong	East Bengal.
				0·27		0·73			81·69			0·5	Demagiri	Chittagong Hill Tracts	
78	0·6	1·15	0·71	0·24	0·71	0·7[illegible]	0·01	72·53	77·06	−4·53	1·5	0·5	Barrisal	Backergunge	
84	2·6	1·13		0·20		0·76			107·23			0·6	Noakholly	Noakholly	
88	0·7	0·86	0·82	0·25	0·82	0·56	+0·26	48·05	55·84	−7·79	1·7	0·5	Furreedpore	Furreedpore	
84	3·9	1·19	1·06	0·20	1·06	0·46	+0·60	56·49	59·89	−3·40	2·3	0·5	Dacca	Dacca	
87	1·4	0·15		0·21		0·71			69·38			0·6	Commillah	Tipperah	
92	5·0	0·36		0·16		0·48			67·42			0·4	Mymensingh	Mymensingh	
84	3·4	1·76	1·62	0·14	2·01	0·44	+1·57	45·64	57·31	−11·67	2·0	0·3	Bogra	Bogra	North Bengal.
89	4·4	0·33	0·43	0·16	1·33	0·46	+0·87	42·05	53·42	−11·37	1·0	0·4	Serajgunge	Pubna	
86	3·6	1·23	1·37	0·13	2·23	0·61	+1·62	47·23	53·99	−6·76	2·0	0·4	Rampore Beauleah	Rajshahye	
84	3·3	3·39	2·70	0·20	3·03	0·57	+2·46	43·34	54·32	−10·98	2·5	0·5	Maldah	Maldah	
89	4·4	2·45	2·70	0·10	2·95	0·40	+2·55	48·56	57·43	−8·87	2·0	0·4	Dinagepore	Dinagepore	
94	3·6	2·50	2·37	0·20	2·56	0·52	+2·04	58·42	73·87	−15·45	2·0	0·5	Rungpore	Rungpore	
93	2·6	1·51	1·88	0·17	2·17	0·46	+1·71	88·16	111·25	−23·09	2·0	0·5	Julpigoree	Julpigoree; Cooch Behar	
93	7·7	2·31	2·21	0·32	2·54	0·91	+1·63	100·62	121·40	−20·78	2·3	1·0	Darjeeling	Darjeeling Hill Tracts	
96	4·4	3·43	2·22	0·14	2·31	0·53	+1·78	50·10	58·70	−8·60	2·0	0·4	Purneah	Purneah; North Bhagulpore	North Behar.
			2·77	0·28	3·10	0·71	+2·39	42·49	43·61	−1·12	2·3	0·4	Mozufferpore	Mozufferpore	
90	3·6	3·00	3·06	0·21	3·38	0·69	+2·69	42·05	44·76	−2·71	2·3	0·4	Durbhunga	Durbhunga	
89	1·6	2·61	2·10	0·31	2·33	0·71	+1·62	43·22	46·84	−3·62	3·5	0·5	Motihari	Chumparun	
92	4·7	1·54	2·02	0·26	2·66	0·69	+1·97	40·09	43·00	−2·91	2·3	0·5	Chupra	Sarun	
84	3·4	0·86											Dehree	Shahabad	South Behar.
86	4·7	0·90	0·64	0·14	0·89	0·72	+0·17	42·80	40·11	+2·69	1·8	0·5	Buxar		
93	4·0	1·12											Arrah		
83	5·6	0·67	1·22	0·22	1·35	0·72	+0·63	50·81	41·70	+9·11	2·0	0·5	Gya	Gya	
92	6·0	1·95	2·16	0·16	2·29	0·60	+1·69	49·00	41·37	+7·63	2·0	0·5	Bankipore	Patna	
93	3·0	1·61	2·39	0·22	2·65	0·61	+2·04	50·93	43·23	+7·70	2·0	0·5	Bhagulpore	South Bhagulpore; Monghyr	
84	3·4	1·72	1·96	0·12	2·22	0·43	+1·79	54·46	50·86	+3·60	1·7	0·4	Doomka	Sonthal Pergunnahs	
73	3·0	0·20		0·16		0·63			50·50			0·4	Hazaribagh	Hazaribagh	Chota Nagpore.
71	3·1	Nil		0·17		0·88			49·14			0·4	Ranchi	Lohardugga	
			0·76	0·22	0·88	0·60	+0·28	47·23	47·06	+0·17	1·0	0·4		Manbhoom	
80	4·0	0·21	0·21	0·33	0·21	0·81	−0·60	40·65	51·65	−11·00	0·6	0·6	Chyebassa	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of February 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 26th January 1889.	Sunday, 27th January.	Monday, 28th January.	Tuesday, 29th January.	Wednesday, 30th January.	Thursday, 31st January.	Friday, 1st February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of January.	Average total rainfall from 1st of January.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA	Pooree ..	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	41·07	51·28
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·26	44·38	56·45
		Banpur ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	36·78	50·45
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·60	54·24	64·78
		Gop ...											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	56·21	47·07
		Banki	0·09	...	...	...	...	...	...	1	0·09	0·09	0·28	43·81	50·77
		Cuttack ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	52·68	56·34
		Kendrapara .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	45·21	53·39
		Jajpore ..	...	...	...	0·30	...	...	...	1	0·30	0·30	0·50	61·45	54·09
		Dharmsala	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·98	?
		Salipore ..											?		?
	Balasore ..	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	51·05	52·27
		Bhuddruck ..	...	...		0·50	...	...	...	1	0·50	0·50	0·45	49·01	51·73
		Sorah ...	...	...			...	...	...	Nil	Nil	Nil	0·30	49·62	51·08
		Balasore ...	...		...		...		...	Nil	Nil	Nil	0·40	56·08	57·78
		Jellasore ..	...	...	...	...	...	...		Nil	Nil	Nil	0·75	53·85	52·93
		Baripodah ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·37	54·18	53·86
SOUTH-WEST BENGAL.	Midnapore ..	Contai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	50·70	61·26
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	52·09	67·15
		Tumlook	...		...		...	...	...	Nil	Nil	Nil	0·50	64·80	51·31
		Midnapore ...	...	...	...	1·67	...	...	...	1	1·67	1·67	0·62	64·71	48·01
		Ghattal	...	...	...	0·46	...	...		1	0·46	0·46	0·51	57·09	54·55
		Kukrahaty ..	...			0·09			...	1	0·09	0·09	?	65·37	?
		Herta	...	...	...	0·03	...		...	1	0·03	0·03	?	52·14	?
		Bhagwanpore		...	...	0·55		0·63	...	2	1·18	1·18	?	51·09	?
		Garbeta ..	...	...	...	0·22	0·06		...	2	0·28	0·28	?	64·60	?
	24-Pergunnahs	Diamond Harbour	...	...		...	...	...	...	Nil	Nil	Nil	0·72	57·18	58·62
		Canning Town	...	...	...	...				Nil	Nil	0·57		56·12	?
		Alipore Jail ..	...		...		0·22	0·05		2	0·27	0·27	0·73	62·22	55·60
		Barrackpore ..	...	...	...		0·10	...	0·15	2	0·25	0·25	0·56	61·81	48·31
		Dum-Dum	...				0·44	...		1	0·44	0·44	0·62	64·18	51·74
		Baraset .	...	...	...	...	0·22	...	0·80	2	1·02	1·02	0·74	65·55	49·40
		Buseerhat ...	...	...	...		0·27	...	0·10	2	0·37	0·37	0·51	51·08	54·52
	Howrah ...	Howrah	...	...	...		0·15	...	...	1	0·15	0·15	0·62	65·72	52·15
		Mohesreka (*Oolobereah.*)	...	...		0·12	0·09	0·21	...	3	0·42	0·45	0·53	59·20	52·01
	Hooghly ..	Serampore ...	...	...	...		0·15	0·12	0·25	3	0·52	0·52	0·53	67·20	50·22
		Hooghly ...	...	...	...	0·05	0·13	...		2	0·18	0·18	0·47	66·91	48·21
		Jehanabad .	...				0·08	...	...	1	0·08	0·08	0·50	61·70	55·15
	Burdwan ...	Culna .	...	...		...	0·73	...	...	1	0·73	0·73	0·53	61·00	44·31
		Burdwan ...	...			...	0·36	...	...	1	0·36	0·36	0·42	45·85	47·93
		Cutwa ...		...		...	0·60			1	0·60	0·60	0·58	60·18	47·89
		Raneegunge .	...	...		...	1·25		...	1	1·25	1·43	0·40	55·43	48·57
		Mankur ...	...	...	...	...	1·18	...	...	1	1·18	1·18	?	43·37	?
	Bankoora ...	Bankoora ..	...	...	...	...	0·55		...	1	0·55	0·55	0·42	49·10	51·33
		Bishenpore ...	...	...	...	...	0·45	0·30	...	2	0·75	0·75	0·31	54·08	51·48
		Mahara ...		...			0·65			1	0·65	0·65	0·32	50·63	51·57
		Khatra ...	...	...	...	...			0·10		0·10	0·10	0·54	55·12	54·18
		Indas ...	...		...	...	0·11	0·03	...	2	0·14	0·14	?	41·40	?
		Kotalpore ..	...	...	...		0·80	1·09	...	2	1·89	1·89	?	48·73	?
		Anda ..	...		...	0·15	0·10	...	...	2	0·25	0·25	?	38·06	?
		Gangajalghati	...	...	...	...	0·53	...		1	0·53	0·53	?	56·70	?
		Raspore ...											?		?
		Sonamukhi ..	...	...	...	...	0·57	...	...	1	0·57	0·57	?	46·33	?
	Beerbhoom .	Bh. Soory ..	...	...	...		0·75	...	...	1	0·75	1·12	0·54	54·43	53·70
		Hetampore .	...	...	...	0·27	0·81	...	...	2	1·08	1·36	0·51	48·54	54·29
		Rampore Haut	...	...		...	1·95	0·25	...	2	2·20	2·48	0·60	70·92	51·51
		Botpore ...	...	...	...	...	1·45	...	...	1	1·45	1·45	?	63·00	?
		Murarai ...											?		?
	Nuddea ...	Ranaghat ..	...	...	...	...	1·72	...	...	1	1·72	1·72	0·50	64·23	47·06
		Kishnaghur ...	...	...	...	...	0·90	0·17	...	2	1·07	1·07	0·40	69·12	45·86
		Chooadanga .	...	...	...	...	0·94		...	1	0·94	0·94	0·42	53·17	51·15
		Meherpore ...	...	...	...	...	1·65	0·50	...	2	2·15	2·15	0·39	50·05	47·61
		Kooshtea .	...	...	...	...	0·57	...	...	1	0·57	0·57	0·43	36·30	54·46
	Khoolna ..	Satkhira ..	...	...	...	...	0·86	...	0·03	2	0·89	0·89	0·44	39·13	53·09
		Bagirhat ...	...		...	...	0·29	...	0·10	2	0·39	0·39	0·86	50·76	61·08
		Khoolna ...	...	...	...	...	0·18	...	0·08	2	0·26	0·33	0·74	48·82	55·01
	Jessore ...	Narail ...	...	...		...	0·50	0·23	0·09	3	0·82	0·82	0·70	30·81	46·26
		Jessore ...	...	...	...	...	0·46	0·03	0·10	3	0·59	0·59	0·65	57·10	54·39
		Jhenidah ..	...	...	...	...	0·65			1	0·65	0·65	0·39	38·29	53·40
		Magoorah ...	...	...	...	...	0·65	...	...	1	0·65	0·65	0·38	41·56	48·43
		Bongong ..	...	...	...	...	0·45	...	...	1	0·45	0·45	0·54	40·45	51·97
	Moorshedabad	Kandi ...	...	...	...	...	0·58	...	...	1	0·58	0·76	0·42	51·07	50·13
		Berhampore ...	...	...	...	...	1·04	...	...	1	1·04	1·38	0·57	42·43	51·35
		Lalbagh .	...	...	...	...	1·81	...	...	1	1·81	1·88	0·20	48·11	50·84
		Azimgunge ...	...	...	...	...	2·04	...	...	1	2·04	2·44	0·61	?	51·22
		Jungipore ...	...	...	...	...	2·08	...	...	1	2·08	2·97	0·51	48·45	40·16
		Lalgola ...	...		...	...	2·05	...		1	2·05	2·34	0·56	53·09	51·21
		Jiagunge ...	...		...	...	1·75	...	...	1	1·75	1·98	?	48·45	?
		Akhriganj ...	...	...	...	...	2·10	...	...	1	2·10	2·36	?	48·67	?
		Patkabari ...		...	...	...	0·50	...	...	1	0·50	0·50	?	44·29	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	...	...	...	...	...	...	0·27	1	0·27	0·27	0·77	140·71	133·79
		Chittagong ...											0·82		93·96
		Kutubdia ...											?		?
		Satkanya ...											?		?
	Chittagong Hill Tracts.	Rangamati ...											0·68		83·76
		Ruma ...											0·78		78·60
	Backergunge	Patuakhally ..	...	...	...	...	...	...	0·67	1	0·67	0·67	0·68	86·27	87·55
		Perozepore ..	...	...	...	...	0·27	...	0·39	2	0·66	0·66	0·78	81·96	70·14
		Burrisal ...	...	...	...	...	0·60	...	0·64	2	1·24	1·24	0·83	66·61	67·81
		Bhola ...	...	...	...	...	...	0·26	...	1	0·26	0·26	0·56	75·23	81·56

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of February 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 26th January 1889.	Sunday, 27th January.	Monday, 28th January.	Tuesday, 29th January.	Wednesday, 30th January.	Thursday, 31st January.	Friday, 1st February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of January.	Average total rainfall from 1st of January.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ..	...	...	...	...	...	...	1·00	1	1·00	1·00	?	50·28	?
		Bauphal ..											?		?
	Noakholly	Noakholly											0·63		107·83
		Fenny											0·88		106·60
		Harishpore ..											?		
		Ramganj ..	...	...	...	...	0·12						?		?
	Furreedpore	Madaripore	...	...	...	...	0·40	...	...	1	0·40	0·40	0·64	46·11	57·87
		Furreedpore	...	...	...	...	0·70	...	0·40	2	1·10	1·10	0·42	53·11	56·[illegible]
		Goalundo	...	...	...	...	0·86	0·11	...	2	0·97	0·97	0·59	44·95	53·10
	Dacca ...	Munshigunge	...	...	...	...	0·45	...	0·11	2	0·56	0·56	0·61	61·60	70·23
		Dacca	...	...	...	...	0·34	...	0·87	2	1·21	1·21	0·43	53·57	58·43
		Naraingunge	...	...	...	...	0·29	...	0·44	2	0·77	0·77	0·32	63·[illegible]	59·61
		Manickgunge	...	...	...	...	0·45	1·24	0·[illegible]2	3	1·71	1·71	0·50	47·45	51·[illegible]
		Joydebpore	...	...	...	...	0·17	...	0·13	2	0·30	0·30	?	59·38	?
	Hill Tipperah	Agartola ..							0·13	1	0·13	0·13	0·69	69·04	61·72
	Tipperah .	Comilla ..	...	...	...			...	0·60	2	1·28	1·28	0·74	57·83	7[illegible]·01
		Chandpore	...	...	...		0·68	...					0·53		77·91
		Brahmunberia											0·86		61·33
		Ramchandrapore.	...	...	...	...	0·02	...	0·48	2	0·50	0·50	?	60·66	?
		Nasirnagar ..											?		?
		Daudkandi							0·05	1	0·05	0·47	?	56·6[illegible]	?
		Kasba	...	...				...	1·90	1	1·99	1·90		80·01	?
		Laksham .	...	...	.	.	...	...							
	Mymensingh	Kishoregunge											0·6[illegible]		70·17
		Atia (*Tangail*)	...	...	.		0·32		.	1	0·32	1·04	0·5[illegible]	38·8	55·5
		Mymensingh					0·08	0·31		2	0·38	0·[illegible]7	0·[illegible]	6[illegible]	74·[illegible]
		Jamalpore		.	.		1·53	0·05		2	1·58	1·81	0·5[illegible]	6[illegible]·4[illegible]	65·3[illegible]
		Netrokona					0·01	0·17		2	0·18	0·30	0·1[illegible]	77·02	71·76
		Subornakhali	.	...	.		0·24						?		?
		Durgapore		...	.			1·60		1	1·60	1·60	?	109·81	
		Sherepore town	...	...	...	.	0·62	0·87	...	2	1·49	1·60	?		?
		Dewanganj													?
NORTH BENGAL.	Pubna	Pubna	...	.	.	.	0·53	.	...	1	0·53	0·53	0·4[illegible]	40·19	53·92
		Serajgunge	...				0·33		...	1	0·[illegible]	2·[illegible]2	0·47	4[illegible]·8	52·8[illegible]
	Bogra	Sherpore ...	...	.	...	.	0·55	0·15		2	0·70	1·36	0·[illegible]	42·5[illegible]	57·81
		Nowkhilla ...	.	.	...		0·40	0·79		2	1·[illegible]	1·44	0·[illegible]5	5[illegible]·[illegible]7	54·7[illegible]
		Bogra ...	.		.	.	0·58	1·00	.	2	1·[illegible]8	2·0[illegible]	0·7	42·8	6[illegible]·86
		Panchbibi .		.		...	1·20	1·82		2	3·02	3·2[illegible]	0·31	46·[illegible]	55·7[illegible]
	Rajshahye	Beauleah .	...	.		.	1·25	0·[illegible]2	...	2	1·2[illegible]	1·78	0·52	32·8[illegible]	5[illegible]·[illegible]3
		Nattore .	...	...			1·32	0·15		2	1·47	2·[illegible]0	0·7	[illegible]	55·[illegible]1
		Naogaon	.	.		.	0·99	1·31		2	2·[illegible]0	2·81		58·78	
		Lalpore ...	.	.	.	...	0·50	0·38		2	0·88	0·88	?	3[illegible]·6	.
		Manda .	.	.	.	...	1·20	1·20		2	[illegible]	3·00	?	3[illegible]·[illegible]	
	Maldah ..	Maldah .	...	...			0·68	2·68	0·03	3	3·39	3·92	0·48	51·[illegible]8	51·76
		Chanchal ..		.			0·76	1·2[illegible]		2	2·0[illegible]	2·14	0·61	3[illegible]·0	[illegible]
		Gajol ...				.	0·90	1·60	.	2	2·50	2·59	.	3[illegible]	.
		Sibganj .			...	...	2·18	0·34		2	2·52	2·[illegible]9	.	48·3	.
	Dinagepore ..	Mohadebpore	.		...	0·50	2·15		...	2	2·65	3·2[illegible]	0·2[illegible]	40·72	[illegible]8·34
		Churamon	.		...		0·89	1·97		2	2·8[illegible]	[illegible]	0·38	4[illegible]·[illegible]7	53·1[illegible]
		Raigunge	.	.	...	...	0·79	2·10		2	2·89	3·04	0·57	52·21	5[illegible]·29
		Dinagepore	.			...	0·20	2·16		2	2·36	2·42	0·[illegible]	59·22	[illegible]4·04
		Baloorghat	...	.		...	0·93	1·81		2	2·74	2·95	0·[illegible]8	41·62	5[illegible]·3[illegible]
		Thakoorgaon	...	...	...	...	0·57	1·90		2	2·47	2·47	?	52·45	?
	Rungpore ...	Bhowanigunge (*Gyebanda*)	...	...	.	...	1·16	1·45	...	2	2·61	2·79	0·40	48·04	61·[illegible]7
		Rungpore .	...	...	.	...	0·37	[illegible]·12	...	2	2·49	2·75	0·62	54·37	74·[illegible]9
		Kurigram	...	.	.	.		2·24		1	2·24	2·36	0·54	75·40	73·[illegible]7
		Bagdogra (*Nilphamari*)	...	...		...	0·40	1·70	0·02	3	2·1[illegible]	2·30	0·55	5[illegible]·[illegible]5	85·25
		Ulipore .	...	...	...	...	0·26	1·24	...	2	1·50	1·50	?	[illegible]5·90	?
	Julpigoree ...	Julpigoree .	...	..	...	...	0·64	1·36	.	2	2·[illegible]0	2·40	0·5[illegible]	106·22	117·70
		Alipore Doar	...	.		...	0·60	1·08		2	1·68	1·68	?	81·34	?
		Fallacotta .	.	...	...	.	0·4[illegible]	1·08		2	1·51	1·7[illegible]	?	91·7[illegible]	?
		Debiganj	.	...	.		0·40	1·88		2	2·28	2·28	?	62·02	?
		Bhogotpore	..	...	...	...	0·70	0·95	0·37	3	2·05	2·05	?	?	?
		Nagrakatta													
	Cooch Behar.	Dinhatta	...	...	...		0·31	1·85	..	2	2·16	2·16	0·52	91·95	9[illegible]
		Cooch Behar .	.	...	...	..	0·40	1·27	..	2	1·67	2·62	0·19	91·88	115·[illegible]
		Mickgunge	...	...	..		0·45	1·43		2	1·88	1·88	0·[illegible]6	70·48	108·[illegible]
		Matabhanga...	...	..	..	.	0·40	1·30	..	2	1·[illegible]0	1·72	0·36	74·2[illegible]	11[illegible]·[illegible]
	Darjeeling Hill	Buxa	...	.		.	0·50	1·35	0·10	5	[illegible]·95	2·33	1·16	1[illegible]·69	1[illegible]2·[illegible]
		Siliguri	...		.	..	0·66	1·40	.	2	2·06	2·06	0·68	8[illegible]·63	10[illegible]
		Darjeeling ...	...	.			0·[illegible]4	1·50		2	[illegible]·34	2·85	0·67	90·02	10[illegible]·[illegible]7
		Kalimpong ..	...	.	...	...	1·02	1·48	.	[illegible]	2·[illegible]	2·92	1·10	7[illegible]·14	[illegible]
NORTH BEHAR	Purneah ...	Kissengunge...	...			.	0·[illegible]8	1·49	..	2	1·98	1·98	0·66	49·36	70·[illegible]
		Arrareah				.	0·89	1·[illegible]0		2	2·19	2·19	0·55	53·11	[illegible]
		Purneah	...	...		.	1·16	1·27		2	2·[illegible]	2·58	0·49	46·47	61·45
		Gondwara ...					0·97	1·80		2	2·77	2·90	?	?	?
		Balarampore	...	...	.		2·[illegible]8	0·4[illegible]	.	2	2·81	2·81	?	?	
		Mattara ...	.	.	.		0·45	1·17	.	2	1·62	1·62	?	[illegible]9·31	.
		Kaliaganj		.	.	...	1·22		.				0·48		49·71
	North Bhagulpore	Madhipore	0·62	.	..	.	1·22	2·05	.	2	3·27	3·37	0·47	41·52	45·[illegible]
		Soopool ..	...	.	..		2·57	0·[illegible]5	.	3	2·92	2·92	.	40·70	.
		Protabganj ..	...	...	...	0·20			...						
	Durbhunga	Tajpore .	...	..	...	...	1·88	2·00	...	2	3·88	4·18	0·69	44·2[illegible]	4[illegible]
		Durbhunga .	.			...	1·29	1·71	.	2	3·00	3·23	0·57	[illegible]8·1[illegible]	40·6[illegible]
		Madhubani	...	...		0·04	1·12	1·1[illegible]	..	3	2·29	2·73	0·80	4[illegible]	45·[illegible]
		Bahera ..	.	.	..	0·[illegible]3	1·48	1·97	.	3	[illegible]·48	3·61	?	[illegible]4·6[illegible]	
		Rusera ...	...	...	...	..	2·25	0·02	...	2	2·87	3·33	?	40·[illegible]	
	Mozufferpore	Sitamarhi	...	.	...	...	1·55	2·2[illegible]	..	2	3·75	3·93	0·[illegible]0	3[illegible]·6[illegible]	4[illegible]·22
		Mozufferpore	...			.	1·52	1·27	.	2	2·79	3·41	0·85	4[illegible]	4[illegible]
		Hajipore ...	.	...	.	0·06	1·28	0·42	.	3	1·70	1·92	0·65	4[illegible]·[illegible]2	[illegible]2·0[illegible]
		Para ...	...	...	...	...	0·43	0·50	..	2	0·9[illegible]	1·48	?	38·2[illegible]	.
		Mahua ..	...	...	...	...	1·40	0·80	.	2	2·[illegible]0	2·89	?	3[illegible]	.
		S[illegible]r ...	...	...	...	...		2·42	...	1	2·42	2·42	.	30·69	.
		Pupri ...	...	...	...	...	1·23	1·00	...	2	2·23	2·40	?	2[illegible]	.
	Chumparun ..	Motihari ...	...	...	...	0·14	0·95	1·26	0·26	4	2·61	2·84	0·67	38·98	41·77
		Bettiah ...	...	...	...	0·15	0·81	0·83	...	3	1·59	1·81	0·75	47·[illegible]	48·[illegible]1
		Bagaha ...	...	...	...	0·19	0·52	1·90	...	3	2·61	2·[illegible]9	?	54·[illegible]	?
		Burhurwa ..	...	...	...	0·07	1·12	1·[illegible]5	...	3	2·44	2·88	?	41·[illegible]	.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of February 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 26th January 1889.	Sunday, 27th January.	Monday, 28th January.	Tuesday, 29th January.	Wednesday, 30th January.	Thursday 31st January.	Friday, 1st February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rain fall since 1st of January.	Average total rain-fall from 1st of January.	Total rain-fall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR —concluded.	Sarun	Gopalgunge ...	...	...	...	0·09	1·27	1·40	...	3	2·76	3·29	0·59	39 29	41·07
		Sewan ...		...		...	1·04	0 63	...	2	1 67	2·60	0·79	43 18	44·03
		Chuprah ...	...	...	...	...	1·19	0 44	...	2	1·63	2·09	0·70	37·78	40·85
SOUTH BEHAR	Shahabad	Buxar ...	...	...	...	...	0·67	0 31	...	2	0·98	1·33	0·83	42·07	38·62
		Dehree ...	...	...	...	...	0 15	0·21	...	2	0·36	0·49	0 81	41·97	39·18
		Bhubooah ...		...	...	...	0·10		...	1	0·10	0·50	0·72	40·67	41·45
		Sasseram ...		...	...	...	0·20	0·10	...	2	0·30	0·50	0·56	42 23	40·74
		Arrah ...	...	...	...	...	0 90	0·55	...	2	1·45	1·61	0 73	45·08	40 38
		Mohaniah ...													?
	Gya	Aurungabad ...	...	...	...	...	0·57	...	...	1	0·57	0·65	0 62	53 97	42·90
		Gya ...	...	...	...	0·12	0 55	...	...	2	0·67	0·72	0 63	52 08	42·71
		Nowadah ...	...	...	...	...	1·75	0·10	...	2	1·85	2·12	0 82	49·97	40·28
		Jehanabad ...	...	...	...	...	1·77	0 02	...	2	1·79	1·90	0·78	47·19	40·76
		Arwal ...	...	...	...	...	0 58	0 15	...	2	0·73	0 92	?	38 51	?
		Daudnagar ...	...	...	...	...	0 40	...	...	1	0·40	0·40	?	42·70	?
		Sherrghatti ...	...	...	...	...	0·40	0·80	...	2	1 20	1·41	?	34·25	?
		Rajauli ...											?		?
		Pakri Barawan ...	...	...	...	...	1·00						?		?
	Patna	Patna ...		...	...	...	1·68	0 27	...	2	1·95	2·12	0 63	41·74	42·03
		Dinapore ...	...	...	...	...	1 23	0 77	...	2	2 00	2·00	0·58	43 70	41·58
		Behar ...		...	...	...	1·82						0 71		42 04
		Barh ...	...	...	...	...	2·48	0·37	...	2	2 85	3·13	0·49	56·70	39·85
		Bickram ...	...	...	...	...	0·90								
		Hilsa ...	...	...	...	...	1·65	0·21	...	2	1·86	1·88		47·69	?
	Monghyr	Begooserai ...	...	...		...	2 60	0·31	...	2	2·91	3·15	0·70	40·22	40·31
		Monghyr ...			...	...	2·01	0 13	...	2	2·14	2 30	0 51	55 91	46 53
		Jamui ...		...	...	...	2 14	...	...	1	2·14	2 48	0 72	51·29	43 15
		Gogri ...	...		...	...	2·67	2·46	...	2	5·13	5 45	?	61 04	?
		Sheikpura ...	...		...	...	1·45						?		?
	South Bhagulpore	Bhagulpore ...			...	...	1 58	0·08	...	2	1·66	2 03	0·56	55 03	42·29
		Banka ...	...	...	...	...	3 05	0·06	...	2	3·11	3·34	0·62	43 22	44·84
		Kolgong ...	...	...	...	...	1·33	0 80	...	2	2 13	2 32	?	52 70	?
	Sonthal Pergunnahs	Rajmehal ...	...	...		...	0·99	0·77	...	2	1·76	2·34	0·23	47·90	52 09
		Godda ...	...	...	...	...	3 25	0·20	...	2	3 45	3 65	0 49	51 29	45 30
		Pakour ...	...	...	...	...	2 74	...	...	1	2 74	2 82	0 25	64·35	55·28
		Nya Doomka ...	...	...	...	...	1·46	0 26	...	2	1 72	2·02	0 61	53 29	53·39
		Deoghur ...	...	...	...	...	1·30	0·08	...	2	1·38	1·49	0·52	53·38	50 23
		Jamtara ...	...	...	...	...	0 72	...	...	1	0 72	1·02	0 44	56 53	48·27
		Mohagama ...	...	...	...	...	1 15	0·20	...	2	1·35	1·41		?	?
		Nunihat ...	...	...	...	...	0 81	0·03	...	2	0 84	0·84		29 06	
CHUTIA NAGPUR.	Hazaribagh	Pachamba (Giridih) ...	...	...	...	...	1·24	...	...	1	1 24	1·45	0·49	56·87	47·57
		Hazaribagh ...	...	...	...		0·20	...	...	1	0·20	0 44	0 65	54 96	48 13
		Semtaguran ...	...	...	...	0·20	...	...	...	1	0 20	0·77	0 50	55·60	45 79
		Manudi Hills											0 80		48 38
		Jhoomra Hills											0·73		62 49
		Barhi ...											?		?
		Chatra ...	...	...	...	...	0·01						?		?
		Karagdeha ...	...	...	...	...	1·10	0·80	...	2	1·90	2·00	?	53·83	?
		Kumghar ...											?		?
	Lohardugga	Lohardugga ...	...	...	...	0 31							1·10		52·61
		Ranchi ...											0 75		52·23
		Palamow ...	...	...	...	...	0·73						0 77		43·36
		Sills ...											?		?
		Balumat ...											?		?
		Hosseinabad ...	...	...	...	...	0·89	0·20	...	2	1·09	1·09	?		?
		Gurwah ...	...	...	...	0·25							?		?
	Singbhoom	Chyebassa ...	...	...	...	0·21	...	...	...	1	0 21	0·21	0·81	40·65	51·80
		Chakradharpore.											?		?
		Ghatsilla ...	...	...	...	0·25							?		?
		Baharagura ...											?		?
	Manbhoom	Purulia ...	...	...	...	...	0·86	...	...	1	0·86	0·98	0·58	57·49	49·12
		Gobindpore ...	...	...	...	...	0·65	...	...	1	0·65	0·77	0·61	36 95	45 16
		Raghunathpore.	...	...	...	...	0·44	...	...	1	0 44	0 53	?	53·33	?
		Barrabhoom ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Jhalda ...													
		Chas ...													

Explanation. ... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 5th February* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 1ST FEBRUARY 1889.

THE week commenced with fine settled weather everywhere, pressure was generally a little above the normal, and was increasing with moderate rapidity; temperature was high, and was also undergoing slight irregular upward changes; winds were northerly, and humidity fairly low. The important changes have been, first, the fall of pressure, which began everywhere on Sunday, and continued in North Bengal till the end of the week; second, the rapid fall which occurred in Bengal about the middle of the week in consequence of the eastward movement of the low-pressure areas in Central and Northern India; third, the rapid increase of humidity and temperature, and the general rainfall lasting almost everywhere for about two days.

The fine weather with which the week commenced continued everywhere in Bengal till Monday, and except Behar and South Bengal till Tuesday. The barometer continued rising on Saturday, but on the following day the fall set in, and continued without interruption for some days During those days changes of temperature were somewhat irregular, but generally it was falling slightly on Saturday and Sunday, and rising about the same the following two days. On Monday the fall of pressure was fairly rapid in South-West Bengal, and on Tuesday it fell there more rapidly. The greatest change on Tuesday, however, was in the extreme north-west of the province, where pressure gave way about a tenth of an inch. The humidity and temperature increased, and the wind direction in South-West Bengal became south-westerly, forming part of the cyclonic circulation of winds in Central India The sky was overcast in Behar and Assam, and a few showers fell in parts of these districts and South-West Bengal, the heaviest fall being 1·6 inches at Midnapore. On Wednesday the barometer continued to fall, and the disturbed conditions extended over the whole province. Except in Orissa, rain fell everywhere, more especially in Behar and some parts of South-West Bengal. The south-westerly winds had extended over almost the whole province, and the temperature was still increasing. On Thursday the centre of the disturbance was over Bengal; the barometer fell rapidly in South Bengal, in some parts as much as an eighth of an inch. Wind force increased, and the cyclonic motion was more distinct. Though cloud still continued, there was general rain only in North Behar and North Bengal, but in parts of these districts more than two inches fell. The temperature still rose, and humidity remained high. The depression passed rapidly over Bengal, and on Friday was on the extreme east of the province. In the north and east pressure was still falling, but in the west it began to rise rather rapidly. Rain had almost ceased to fall, except in East Bengal, and temperature and humidity were beginning to be reduced. The disturbed conditions began on the same day in the north-west and south west corners of the province, and after affecting the weather conditions everywhere during the latter half of the week, passed off to the east.

Pressure.—Pressure changes have been, except as to intensity, of the same nature during almost the whole week. On Saturday, the first day of the week, the barometer rose in some cases with considerable rapidity. In parts of Behar and North Bengal the rise was over a tenth of an inch After that a fall everywhere se in, slowly and irregularly at first, but with increasing intensity, especially in Behar and South-West Bengal. Up till Tuesday the greatest fall was a tenth of an inch at Patna on the 29th. Considerable falls occurred on the two following days, and altogether the reduction became about a quarter of an inch in Behar. During these days slight falls had been occurring in the southern districts, but they rarely exceed a twentieth of an inch. On Thursday, however, the barometer fell much more rapidly in South-West and East [illegible]al. At Midnapore the reduction amounted to three-tenths of an inch The total fall of [illegible]ssure at Midnapore is therefore considerably greater than at any of the stations in [illegible]ar. The total fall at Burdwan and Balasore was in each case about ·25″. The centre [illegible] the low pressure area must therefore have passed near Midnapore. Thus two low pressure areas almost simultaneously entered Bengal—one from the north-west over Behar, the other of a little greater intensity from Central India On Thursday there was a distinct depression passing eastward over Bengal. It moved away rapidly, and on Friday the pressure was rising on the west of the province

Temperature.—At the beginning of the week, temperature, though generally in excess, was only slightly so except in Orissa. On Saturday Cuttack had an excess of 8°. On the two following days the changes were generally small, and the excess amounts became very little altered. During these three days the temperature in Behar was about normal On the 29th a general rise set in, causing everywhere an excess of three to four degrees, the greatest being 7·8° at Calcutta On Wednesday, the 30th and Thursday small irregular rises were general, and in many places continued on Friday but the increase was usually small, and on the west of the province the temperature had begun to fall. The temperature has therefore been increasing, though slowly, during almost the whole week, and the mean for the week is, except in the north, considerably in excess. In Orissa and Chutia Nagpur the excess is about 5°.

The general range and distribution of temperature for the week, and its variation from the normal, is shown in the following table, where the average, maximum, minimum, and

mean temperatures at nine typical stations in the province are compared with the normal values for the same period:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 1st February 1889.

	Normal mean maximum temperature for the week ending 1st February.	Actual mean maximum temperature for the week ending 1st February 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 1st February.	Actual mean minimum temperature for the week ending 1st February 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 1st February.	Actual mean daily temperature for the week ending 1st February 1889.	Variation of actual mean from the normal.
Cuttack	86·1	89·5	+3·4	61·5	67·5	+6 0	73·8	78·5	+4·7
Calcutta	78·7	80 6	+1 9	56 6	60 2	+3·6	67 7	70·4	+2·7
Dacca	78·9	81·0	+2 1	55·4	57·5	+2 1	67·2	69 2	+2·0
Burdwan	79 3	82·6	+3·3	55 6	59·2	+3·6	67·5	70·9	+3·4
Patna	74·0	70·8	−3·2	49·7	53 4	+3·7	61·8	62·1	+0 3
Gya	76·8	77 2	+0 4	53·1	57 1	+4·0	65·0	67·2	+3 2
Purneah	75·9	74·1	−1·8	48 6	51·4	+2·8	62·2	62 8	+0 6
Hazaribagh	73 8	76 5	+2·7	51·2	55 6	+4 4	62 5	66 1	+3·6
Darjeeling	43·7	46 2	+2 5	33·7	36·0	+2 3	38·7	41 1	+2·4

Rainfall.—Rain commenced to fall in South-West Bengal and Behar on Tuesday, the 29th, and became general over the whole province the following day. The largest falls were in one or two cases over three inches in South Behar; but at many places in Behar and North Bengal, and at a few in South-West Bengal, more than two inches fell. The rain continued in North and East Bengal on Thursday, but was practically absent from South-West Bengal and Orissa. In some cases heavy showers fell on Friday in East Bengal, one station reporting almost two inches. The average fall has been largest in North Behar, amounting to nearly two and-a-half inches. The average in North Bengal is exactly two inches, and in South Behar very nearly two. South-West Bengal received only three-quarters of an inch, but the fall there, though general, was very irregular. In Orissa the average is little over a twentieth of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 1st February 1889:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	91 9	60 1	84·4	68·2	70·3	+4 9	0·06	0 22	—0·16	0·2	0·4	—0 2	0·06	0·40	50·54	58·80
South-West Bengal ..	87 3	49 9	81 3	60·0	70·6	+3·8	0·79	0·20	+0·59	1·4	0·5	+0·9	0·66	0·52	53·38	52 06
East Bengal	85 6	49·6	80·1	56 0	68·1	+3·2	0·61	0·21	+0·40	1 4	0·4	+1·0	0·72	0 61	71·29	74·36
North Bengal	81·6	46 0	75·5	53·2	64·4	+2·5	2·00	0 15	+1·85	2·0	0·4	+1·6	2·39	0·47	55 58	70 49
North Behar	79·2	44 9	67·6	51 6	59 6	−1·7	2 43	0·21	+2·22	2·4	0·5	+1·9	2·73	0·65	44·84	48·83
South Behar	82 8	47 4	74·0	54 8	64·4	+2 1	1·73	0 17	+1·56	1·8	0·4	+1·4	1·95	0 61	50·14	43·91
Chutia Nagpur	82·5*	49 9*	77·9*	55·3*	66 6*	+4 7*	0·80	0·19	+0·61	1·0	0·5	+0·5	1·07	0·71	51·24	49·62

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 4th February 1889.

C. LITTLE,
For Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of January 1889.

	Inches.	Date.	Hour.
The mean pressure of the month	30·026		
The average pressure of January from 24 years' registers ...	30·014		
The highest pressure in the month	30·223	7th	10h.
The lowest pressure in the month	29·807	31st	16h.
The range of pressure	0·416		
	Hours.		
The total number of hours of bright sunshine during the month	274·5		
The maximum possible number of hours of sunshine ...	337·3		
	°		
The mean temperature of the month	67·6		
The average temperature of January from 24 years' registers ...	67·7		
The highest temperature in the month	85·6	19th.	
The lowest temperature in the month	48·6	2nd.	
The range of temperature during the month	37·0		
The mean daily range of temperature	22·3		
The greatest range of temperature in one day	27·3	3rd.	
	Per cent.		
The mean humidity of the month	73		
The average humidity of January from 24 years' registers ...	71		
	Inches.		
The mean vapour tension of the month	0·486		
The average vapour tension of January from 9 years' registers	0·467		
The mean cloud proportion of the month	1·21		
The average cloud proportion of January from 12 years' registers	1·51		
	Inches.		
The total rainfall of the month	0·16		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0·13		
The average fall of January from 48 years' registers ...	0·43		
The greatest fall in 24 hours	0·12	30th	
The number of rainy days in the month	4		
The average number of rainy days in January from 24 years' registers	2		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	133·6		
The mean difference of sun and air temperatures	54·0		
The greatest sun temperature	140·3	31st.	
The greatest excess of sun over air temperature	58·2	29th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	49·4		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	8·3		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	11·6	2nd.	
	Miles		
The mean movement of the wind per day	50·8		
The greatest movement of the wind in one day	167·0	31st.	
The greatest movement of the wind in one hour	20·0	31st Noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 90, NE. 30, E. 30, SE. 28, S. 47, SW. 101, W. 110, NW. 104, Calm 204.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2·5° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

C. LITTLE,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 4th February 1889.

Results of the Meteorological Observations taken at the Alipore Observatory from 27th January to 2nd February 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan.	27th	131·2	9·4	30·090	67·5	79 6	23·9	55 7	60·9	0·451	56 0	69	NNE, N and WNW	36	Nil	Chiefly clear △.
„	28th	135·2	10·0	·051	70·1	80·0	21·8	59·0	64·1	·521	60·1	72	WNW and NSW ..	38	„	Partially cloudy, ≡.
„	29th	139·5	8·8	29·992	72·9	81·3	16·9	64·4	68·6	·643	66·1	80	SE by S and SSW	43	0·02	Partially cloudy, d, △.
„	30th	137·4	9·4	·972	71·6	82·5	20·1	62 4	66·8	·597	64·0	78	SSE and variable ..	136	0 12	Partially cloudy, o, g, p, t, Λ.
„	31st	140·3	8·3	·870	72·2	83·6	21·8	61·8	68·6	·657	66·7	83	ESE and SW ...	148	0·01	Partially cloudy, d, △.
Feb	1st	133·0	9 8	·918	69·0	76 2	14 9	61·3	62 5	·484	58 0	70	NNW and calm ...	86	Nil	Clear, △.
„	2nd	130·6	10·3	30·026	64·2	72 7	20 4	52·3	55·0	·312	46·0	55	NW and calm ...	69	„	Clear, △.

	Inches.
The mean pressure of the seven days	29·988
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·990
	Hours.
The total number of hours of bright sunshine	66·0
The maximum possible number of hours of sunshine	77·5
	°
The mean temperature of the seven days	69·6
The average temperature of the corresponding period for 24 years, S. G.'s Office	69·0
The extreme variation of temperature	31 3
The maximum temperature	83 6
	Miles.
The highest velocity of the wind in one hour	20
	lbs.
The highest pressure of wind on one square foot	7
	%
The mean relative humidity	72
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	71
	Inches.
The total fall of rain from 27th January to 2nd February 1889 ...	0·15
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·24
The total fall from 1st January to 2nd February 1889	0·16
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·46

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, Λ lighting, △ dew, ≡ fog.

O. LITTLE,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 4th February 1889.

Abstract of the Results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of January 1889.

	...	°	Date.
The mean temperature during the month ...	...	69·1	
The highest temperature during the month ...	...	87·0	19th.
The lowest temperature during the month ...	...	48·9	3rd.
The range of temperature during the month ...	...	38 1	
The mean daily range of temperature during the month	...	23·3	
The greatest range of temperature in one day during the month	...	29 0	3rd.
		%	
The mean humidity during the month	...	70	
		Inches.	
The mean vapour tension during the month ...	...	·505	
The total rainfall of the month	...	0·17	
The greatest fall in 24 hours	...	0·15	30th.
		Days.	
The number of rainy days in the month	...	2	

C. LITTLE,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 4th February 1889.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th January to 2nd February 1889.

Month.	Date.	Temperature. 10 A.M.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Wet bulb, 10 A.M.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Rain.
1889.		°	°	°	°	°	Inches.	°	%	Inches.
January ...	27th ...	72·3	81·4	25·0	56·4	61·7	·411	53·5	52	
" ...	28th ..	74·6	83·4	23·5	59 9	64·1	·459	56 6	51	
" ...	29th ...	76 9	83·4	18·4	65·0	69·9	·639	66·0	69	
" ...	30th ..	74·0	84·9	22·2	62 7	67 8	·598	64 0	71	0 15
" ...	31st ...	79·1	85·9	24 0	61·9	72·1	·694	68·4	70	
February ...	1st ...	70·6	77·9	16·5	61 4	64·6	·530	60·6	71	
" ...	2nd ...	67·6	74·9	20·8	54 1	55·7	·287	43·8	42	

			°
The mean temperature at 10 A.M. of the seven days	...	...	73·6
The extreme variation of temperature ...	...	...	31·8
The maximum temperature	...	...	85·9
			%
The mean relative humidity at 10 A.M. of the seven days	...	...	61
			Inches.
The total fall of rain from 27th January to 2nd February 1889		...	0 15

METEOROLOGICAL OFFICE, INDIA;
The 4th February 1889.

C. LITTLE,
For Offg. Meteorological Reporter to the Govt. of India

MEMORANDUM.

For the week ending 19th January 1889 the returns from the principal Municipalities in Bengal present the following results.

1. The ratios per *mille* of births stood at 24·8, as opposed to 25·9 during the preceding week ending 12th January, and of deaths at 24·1 against 26·6. There was thus a retrogression in the registration of both births and deaths.

2. The following Municipalities registered the highest proportions of births and deaths :—

Births.

	Ratio per *mille.*
Monghyr	49·7
Utterpara	47·2
Naraingunj	45·5
Rampore Beauleah	42·0
Santipore	36·8
Bhagulpore	36·2
Purneah	31·2
Durbhanga	29·9
Hughli	29·5
Serampore	29·4

Deaths.

	Ratio per *mille.*
Naraingunj	82·8
Utterpara	47·2
Purneah	45·0
Puri	39·9
Suburbs of Calcutta	39·3
Serampore	33·4
Bali	31·6
Hughli	30·9

3. The only noticeable point in connection with the incidence of the specific diseases, in comparison with the outcome of the preceding week, is a sensible abatement in the mortality from fever—*vide* subjoined table :—

	Ratio per *mille* during the weeks ending— 19th Jan. 1889.	12th Jan. 1889.
Cholera	2·4	2·8
Small-pox	..	·1
Fever	8·9	10·2
Bowel-complaints	4·4	4·3
Injury	·2	·6
Other causes	8·2	8·6

4. Of the diseases mentioned above, fever proved noticeably fatal in the Purneah Municipality, where the rate of death was 34·6 per 1,000 of the population. Small-pox furnished no death. Injury exhibited normal fatality. Cholera, bowel-complaints and the maladies coming under the head of "Other causes" caused the highest mortality in the following Municipalities :—

Cholera.

	Ratio per *mille.*
Naraingunj	20·7
Bali	10·5
Howrah	9·1
Suburbs of Calcutta	5·0

Bowel-complaints.

	Ratio per *mille.*
Naraingunj	16·5
Bali	10·5
Suburbs of Calcutta	9·7
Hughli	9·4

Other causes.

	Ratio per *mille.*
Naraingunj	33·1
Serampore	21·6
Midnapore	15·5
Puri	14·7
Suburbs of Calcutta	12·0
Hughli	10·7
Dacca	10·4

5. The death-rates in relation to *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	26·3
Females	21·7
Ratio of male deaths to every 100 female deaths	136

According to Class.

	Ratio per *mille.*
Christians	21·7
Hindus	25·1
Mahomedans	22·3
Bhudhists	24·1

According to Age.

	Ratio per *mille.*
Under 1 year	200·6
1 and under 5 years	18·0
5 " 10 "	14·7
10 " 15 "	10·4
15 " 20 "	17·3
20 " 30 "	16·9
30 " 40 "	19·4
40 " 50 "	15·2
50 " 60 "	24·0
60 years and upwards	67·2

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

The 31st January 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 19th January 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.								Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	7	3	10	10·7	4·6	15·3	233	...	...	9	3	...	6	18	...	..	13·7	4·8	...	9·2	27·5	42·7	13	6	34·5	19·5	200
Midnapore... ...	Midnapore	16,927	16,633	33,560	4	6	10	6·2	9·3	15·5	66	...	...	2	2	...	10	14	...	...	3·1	3·1	...	15·5	21·7	20·1	7	7	21·5	21·9	100
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	9	13	22	13·1	17·4	29·5	69	1	...	7	7	.	8	23	1·3	...	9·4	9·4	...	10·7	30·9	21·5	15	8	40·7	21·3	187
Serampore ...	Serampore	13,559	12,937	26,496	7	8	15	13·7	15·7	29·4	87	1	...	2	3	..	11	17	2·0	...	3·9	5·9	.	21·6	33·4	56·9	9	8	34·5	32·2	112
	Utterpara	3,046	2,464	5,510	5		5	47·2		47·2	No female birth	2	...	1	1	...	1	5	18·9	..	9·4	9·4	...	9·4	47·2	18·9	5	...	8·4	...	No female death.
Howrah	Howrah	53,153	37,660	90,813	20	19	39	11·4	10·9	22·3	105	16	...	14	11	1	8	50	9·1	...	8·0	6·3	·6	4·6	28·6	34·4	34	16	33·3	23·1	212
	Bali	7,836	6,979	14,815	5	1	6	17·5	3·5	21·1	500	3	...	2	3	...	1	9	10·5	...	7·0	10·5	..	3·5	31·6	35·1	6	3	39·8	23·4	200
24-Pergunnahs ...	Suburbs of Calcutta ..	147,205	104,234	251,439	60	62	122	12·4	12·8	25·2	96	24	..	60	47	1	58	190	5·0	..	12·4	9·7	·2	12·0	39·3	45·9	103	87	36·4	43·4	118
Nuddea	Kishnaghur	13,263	14,214	27,477	12	3	15	22·7	5·7	28·4	400	...	...	9	...	..	1	10		...	17·0	..		1·9	18·9	20·8	5	5	19·6	18·3	100
	Ranaghat	4,028	4,655	8,683		1	1	.	6·0	6·0	No male birth.	...	...	...	...		...	..		...	...	...	..	.	.	......	..	...	...	...	......
	Santipore	13,708	15,979	29,687	13	8	21	22·8	14·0	36·5	162	.	...	2	.	1	3	6	...	...	3·5	.	1·7	5·3	10·5	7·0	3	3	11·4	9·8	100
Jessore	Jessore	4,830	3,665	8,495	.	1	1	.	6·1	6·1	No male birth	.	...	2	1	...	...	3	...	...	12·2	6·1	..	...	18·4	24·5	1	2	10·8	28·4	50
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	12	4	16	31·5	10·5	42·0	300	1	...	6	1	...	2	10	2·6	...	15·8	2·6	..	5·3	26·3	28·9	6	4	29·0	23·0	150
Darjiling	Darjiling*	5,029	2,947	7,976	2	...	2	13·0	...	13·0	No female birth.	..	...	2	...	...	..	2	...	...	13·0	...	..	..	43·0	19·6	1	1	10·3	11·6	100
Dacca	Dacca	42,782	37,379	80,161	19	25	44	12·3	16·2	28·5	76	3	...	11	2	...	16	32	1·9	...	7·1	1·3	...	10·4	20·8	20·1	20	12	24·3	16·7	166
	Narainganj	7,605	4,956	12,561	5	6	11	20·7	24·8	45·5	83	5	...	3	4	...	8	20	20·7	...	12·4	16·5	...	31·1	82·8	16·6	12	8	82·1	83·9	150
Chittagong ...	Chittagong	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150		...	1	...	...	1	2	...	...	2·3	...	...	2·3	4·7	18·8	2	...	7·8	...	No female death.
Tipperah	Comillah	8,153	5,353	13,506	1	4	5	3·9	15·4	19·3	25	..	...	4	1	...	.	5	.	...	15·4	3·9	...	...	19·3	27·0	2	3	12·8	29·1	66
Patna	Patna City	78,762	81,475	160,237	18	24	42	5·8	7·8	13·6	75	.	...	21	9	1	16	47	..	...	6·8	2·9	·3	5·2	15·3	15·3	29	18	19·1	11·5	161
Gya	Gya	38,290	37,831	76,121	17	15	32	11·6	10·2	21·9	113	2	...	13	1	..	13	29	1·3	...	8·9	·7	..	8·9	19·8	23·9	14	15	19·0	20·6	93
Shahabad	Arrah	20,960	22,505	43,465	6	9	15	7·2	10·7	17·9	66	...	...	7	1	...	2	10	..	...	8·4	1·2	..	2·4	12·0	12·0	4	6	9·9	13·9	66
Mozufferpore ...	Mozufferpore	23,084	19,658	42,742	11	5	16	13·4	6·1	19·5	220	...	...	2	1	..	4	7	...	.	2·4	1·2	...	4·9	8·5	9·7	5	2	11·3	5·3	250
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	20	18	38	15·7	14·2	29·9	111	2	.	13	6	..	8	29	1·6	.	10·2	4·7	...	6·3	22·8	27·5	17	12	26·2	19·3	141
Sarun	Chupra	26,044	27,205	53,249	8	13	21	7·8	12·7	20·5	61	...	...	6	2	.	10	18	...	...	5·9	1·9	..	9·8	17·6	10·7	9	9	18·0	17·2	100
Bhagulpore... ..	Bhagulpore	29,640	27,813	57,453	18	22	40	16·3	19·9	36·2	81	...	..	6		...	9	15	...	..	5·4	..	...	8·1	13·6	17·2	7	8	12·3	15·0	87
Monghyr	Monghyr	28,154	29,366	57,520	28	27	55	25·3	24·4	49·7	103	...	...	6	2		5	13		...	5·4	1·8	..	4·5	11·3	25·3	7	6	12·9	10·6	116
Purneah	Purneah	8,463	6,553	15,016	6	3	9	20·8	10·4	31·2	200	1	...	10	..	...	2	13	3·5	...	34·6	..	...	6·9	45·0	20·8	10	3	61·4	23·8	333
Puri	Puri	13,247	11,537	24,784	6	7	13	12·6	14·7	27·3	85	1	...	5	4	2	7	19	2·1		10·5	8·4	4·2	14·7	39·9	31·5	11	8	43·3	36·1	137
	Total ...	702,890	619,691	1,322,581	322	309	631	12·7	12·1	24·8	104	62	..	226	112	6	210	616	2·4	.	8·9	4·4	·2	8·2	24·1	26·6	356	260	26·3	21·7	136

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14				
		MORTALITY ACCORDING TO— Class.									
		Deaths among—					Ratio per 1,000 of Population per annum.				
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	13	5	...	...	..	28·5	25·3	...	...
Midnapore	Midnapore	...	11	3	...	...	..	22·1	21·6	...	...
Hughli	Hughli and Chinsurah	...	23	...	...	...	...	37·8	...	..	.
Serampore	Serampore	...	15	2	...	...	...	30·9	110·9	...	...
	Utterpara	...	5	...	...	...	...	48·3	...	...	...
Howrah	Howrah	...	34	16	..	.	...	25·9	40·6	...	...
	Bali	...	8	1	...	...	...	31·0	39·7	...	...
24-Pergunnahs	Suburbs of Calcutta	4	122	64	...	...	51·4	42·3	34·5	...	...
Nuddea	Kishnaghur	...	8	2	...	...	...	22·3	12·6	...	...
	Ranaghat	...	...	...	...	...	...	...	...	..	...
	Santipore	...	6	...	...	...	...	15·1	..	...	...
Jessore	Jessore	...	...	3	...	...	...	...	40·8	...	...
Rajshahye	Rampore Beauleah	...	5	5	...	...	...	26·2	26·5	...	...
Darjiling	Darjiling	...	1	...	1	...	..	11·3	..	31·5	...
Dacca	Dacca	...	19	13	...	...	...	24·5	17·2	..	..
	Narainganj	...	10	10	...	...	..	82·2	84·4	...	..
Chittagong	Chittagong	1	...	1	...	...	65·3	..	3·4	...	...
Tipperah	Comillah	...	2	3	...	...	...	17·5	21·1	...	...
Patna	Patna City	...	43	4	...	...	...	18·8	5·1	...	...
Gya	Gya	...	25	4	...	...	...	21·7	12·9	...	...
Shahabad	Arrah	...	6	4	...	...	...	10·1	16·8	...	...
Mozufferpore	Mozufferpore	...	4	3	...	...	...	6·9	12·5	...	...
Durbhanga	Durbhanga	...	23	6	...	...	...	24·7	17·8	...	...
Sarun	Chupra	...	9	9	...	...	...	11·4	38·9	...	...
Bhagulpore	Bhagulpore	...	10	5	...	...	...	13·1	15·1	...	...
Monghyr	Monghyr	...	11	2	...	...	...	12·8	8·3	...	...
Purneah	Purneah	...	10	3	...	...	...	56·7	27·6	..	...
Puri	Puri	...	19	...	...	...	...	40·3	...	...	...
	TOTAL	5	442	168	1	..	21·7	25·1	22·3	24·1	..

DISTRICTS.	NAMES OF MUNICIPALITIES.	15										16									
		MORTALITY ACCORDING TO— Age.																			
		Deaths.										Ratio per 1,000 of Population per annum.									
		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	5	...	1	1	1	4	5	...	1	...	393·9	......	22·3	20·7	16·6	46·3	37·7	......	21·2	......
Midnapore	Midnapore	8	...	1	...	...	1	1	1	...	[illegible]	559·9	......	13·9	......	......	7·1	9·4	14·0	......	56·8
Hughli	Hughli and Chinsurah	7	2	...	...	1	2	3	1	...	7	386·0	39·0	......	......	17·5	13·6	22·3	10·0	......	145·2
Serampore	Serampore	7	3	...	...	1	1	...	2	1	2	512·7	86·4	......	......	23·8	9·7	......	30·8	27·2	74·8
	Utterpara	1	...	...	...	...	1	1	2	...	...	323·0	......	......	......	......	45·2	49·0	148·4	......	......
Howrah	Howrah	7	3	4	3	1	7	9	6	1	9	176·4	28·2	33·1	23·7	7·1	16·0	24·3	26·5	9·5	124·8
	Bali	...	1	2	...	2	...	1	1	...	2	......	52·1	97·6	......	77·9	......	18·6	26·9	......	143·1
24-Pergunnahs	Suburbs of Calcutta	33	10	7	8	11	32	34	14	16	25	360·1	32·2	18·4	23·2	31·7	28·6	34·3	21·4	49·0	91·3
Nuddea	Kishnaghur	3	...	...	1	...	1	...	...	1	4	314·5	......	......	18·5	......	10·8	......	......	24·7	130·4
	Ranaghat	...	...	...	...	...	...	...	...	...	...	......	......	......	......	......	......	......	......	......	......
	Santipore	3	1	1	...	...	...	...	...	1	...	184·6	17·9	13·8	......	......	......	......	......	23·6	......
Jessore	Jessore	1	1	...	...	...	1	...	...	...	...	268·0	105·3	......	......	......	25·8	......	......	......	......
Rajshahye	Rampore Beauleah	2	...	...	...	2	3	1	...	1	1	256·2	......	......	......	62·6	37·5	14·4	......	41·9	54·0
Darjiling	Darjiling	1	...	...	...	...	1	.	...	...	...	429·8	......	......	......	......	26·0	......	......	......	......
Dacca	Dacca	4	1	2	2	2	7	6	3	1	4	109·6	7·1	10·5	13·1	14·2	23·8	26·8	18·6	11·8	37·3
	Narainganj	2	2	...	...	4	6	2	...	1	3	372·8	91·2	......	......	199·0	116·9	48·6	......	86·4	239·3
Chittagong	Chittagong	...	...	1	...	..	...	...	...	...	1	......	......	20·8	......	......	......	......	......	......	46·3
Tipperah	Comillah	...	..	...	...	...	...	1	1	...	3	......	......	......	......	......	......	28·1	30·6	......	230·1
Patna	Patna City	7	1	6	4	...	4	4	3	5	13	84·5	3·6	18·5	14·4	......	7·2	8·9	8·3	18·4	48·9
Gya	Gya	3	3	4	1	1	...	3	4	2	8	87·2	24·6	29·7	7·7	9·9	......	12·3	21·3	15·8	80·8
Shahabad	Arrah	3	2	...	...	...	.	1	...	...	4	121·1	23·5	......	......	......	......	8·1	......	......	72·1
Mozufferpore	Mozufferpore	2	1	1	...	...	...	2	...	...	1	108·9	12·9	11·6	......	......	......	14·9	......	......	21·4
Durbhanga	Durbhanga	4	2	5	1	2	3	3	2	3	4	133·6	13·7	33·2	9·4	25·9	11·7	14·0	14·0	35·6	65·1
Sarun	Chupra	3	1	1	1	1	3	1	1	2	4	108·0	9·8	8·4	10·1	14·6	16·4	6·4	8·3	24·7	59·8
Bhagulpore	Bhagulpore	4	.	...	...	2	1	1	2	3	2	174·2	......	......	......	24·9	4·8	5·6	[illegible]	36·8	23·9
Monghyr	Monghyr	1	1	1	...	2	4	1	1	..	2	35·0	[illegible]	7·4	......	27·5	20·1	5·8	8·2	......	29·0
Purneah	Purneah	3	...	...	...	1	4	2	2	...	1	551·2	......	......	......	52·3	63·3	36·8	56·1	......	64·4
Puri	Puri	3	1	..	1	1	2	3	1	5	2	514·9	28·9	......	27·7	25·0	19·7	38·5	15·6	116·5	87·6
	TOTAL	117	36	37	23	35	88	85	47	44	104	200·8	18·0	14·7	10·4	17·3	16·9	19·4	15·2	24·0	67·2

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 31st January 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Offg. Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 2nd February 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 2nd February 1889.			Week ending Saturday, the 4th February 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,797	3,64,825	6,342	2,194	4,89,106	8,568
Jute	109	85,125	1,536	139	96,813	1,692
Firewood	146	83,725	1,222	131	65,225	1,021
Other articles	1,205	3,27,255	3,710	1,070	3,07,685	3,957
Total ...	3,257	8,60,930	12,810	3,534	9,58,829	15,238

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of November 1888, *as compared with the same month of the previous year.*

Staples.	1887.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1887.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	529	......	1,211	......	529	1,211	682	......
Cotton, raw	16	......	8	......	16	8	......	8
Cotton twist and yarn—								
1.—European	2	......	......	......	2	......	......	2
2.—Indian	1	......	......	......	1	......	......	1
Cotton piece-goods—								
1.—European	34	1	45	3	35	48	13	......
2.—Indian	3	......	......	......	3	......	......	3
Dyes and chemicals—								
b.—Others	1	......	......	......	1	......	......	1
Jute—								
1.—Raw	......	......	......	118	......	118	118	......
2.—Gunny bags and cloths	10	1	9	......	11	9	......	2
Grains—								
2.—Rice	24	353	54	416	377	470	93	......
4.—Gram	......	......	1	......	......	1	1	......
5.—Others	3	8	5	33	11	38	27	......
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	......	1	......	......	1	......	......	1
b.—Undressed	......	3	......	2	3	2	......	1
2. Skins of sheep, goats and small animals—								
a.—Dressed	......	1	......	......	1	......	......	1
Leather, manufactured	6	......	8	......	6	8	2	......
Liquors—								
1.—Beer	1	......	1	......	1	1	......	......
2.—Wines	1	......	1	......	1	1	......	......
Metals—								
2.—Iron	2	......	1	......	2	1	......	1
4.—Others	1	2	1	5	3	6	3	......
Oils—								
1.—Castor	......	......	......	1	......	1	1	......
2.—Kerosine	1	......	3	......	1	3	2	......
3.—Others	1	......	4	......	1	4	3	......
Provisions—								
1.—Ghee	3	......	......	......	3	......	......	3
2.—Dried fruits and nuts	5	......	6	2	5	8	3	......
3.—Others	......	......	7	......	......	7	7	......
Railway plant and rolling-stock	19	17	109	26	36	135	99	......
Salt	26	......	22	......	26	22	......	4
Oilseeds—								
1.—Linseed	......	......	......	20	......	20	20	......
2.—Mustard and rape	28	1	16	......	29	16	......	13
Silk, raw—								
2.—Indian	5	6	......	2	11	2	......	9
Silk piece-goods—								
2.—Indian	......	6	......	7	6	7	1	......
Stone and lime	3	......	10	......	3	10	7	......
Sugar—								
1.—Drained	12	......	15	......	12	15	3	......
2.—Undrained	4	......	1	......	4	1	......	3
Tobacco	1	3	......	......	4	......	......	4
Timber	......	......	1	......	......	1	1	......
Wool—								
1.—Raw	......	......	......	1	......	1	1	......
2.—Piece-goods—								
b.—Indian	2	......	4	......	2	4	2	......
Paper and pasteboard	3	......	2	1	3	3	......	......
All other articles of merchandise	55	27	60	20	82	80	......	2
Total	802	430	1,605	657	1,232	2,262	1,089	59

Increase. — Tons.

Coal 682

This increase is due to greater import of brick-burning coal.

Cotton piece-goods—

(1) European 13

This increase is due to steamer service between Jeagunge and Calcutta being closed.

Jute—

(1) Raw 118

This traffic is carried by railway this year, the river communication between Jeagunge and Calcutta having been stopped for want of sufficient water.

Grains—

(2) Rice 93

The increase under this head is due to greater despatches from intermediate stations.

(5) Others 27

This is due to steamer service between Jeagungo and Calcutta being stopped.

Railway plant and rolling-stock 99

This increase is due to more materials carried this year.

Oilseeds—

(1) Linseed 20

This is due to steamer service between Jeagunge and Calcutta being stopped.

Decrease.

Cotton, raw 8

This decrease is due to dull market.

Oilseeds—

(2) Mustard and rape 13

This decrease is due to dull market.

Silk, raw—

(2) Indian 9

This decrease is due to less export.

The 5th February 1889.

R. G. Mookerjee, *Manager, Nalhati State Railway.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	232,985	2,84,838 8 0	29,25,592 20	6,29,860 3 6	17,310 6 4	9,32,009 1 10	65,273½	98,983	164,256½
Or per mile of railway ...	......	188 2 8	.....	416 1 6	11 7 0	615 11 2	......	......	... ..
For previous 3 weeks of half-year	625,697	7,44,424 5 0	78,98,029 0	16,99,983 9 6	46,171 8 0	24,90,579 6 6	176,321	261,208½	437,529½
Total for 4 weeks ...	858,682	10,29,262 13 0	1,08,23,621 20	23,29,843 13 0	63,481 14 4	34,22,588 8 4	241,594½	360,191½	601,786½
Comparison.									
Total for corresponding week of previous year	279,813	3,33,631 10 4	27,82,579 30	6,78,089 7 3	26,965 14 1	10,38,686 15 8	65,936	105,047	170 983
Per mile of railway corresponding week of previous year ...	......	220 6 5	......	447 15 3	17 13 0	686 2 8	......	......	......
Total to corresponding date of previous year	1,090,902½	12,81,810 12 4	1,09,85,762 10	26,38,854 5 0	91,126 4 5	40,11,791 5 9	264,229	417,008	681,237

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,38,687	686	1,513¾	9,32,009	616	1,513¾	3,73,70,557	574	1,513¾	3 57,38,868	549	.....	16,31,689

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 57⅕ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts	Weight carried.	Receipts			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ...	11,099	5,821 10 0	22,053 10	1,305 13 0	41 4 0	7,168 11 0	1,842	552	2,394
Or per mile of railway .	194	101 12 5	385 30	22 13 3	0 11 7	125 5 3	... .	... ..	..
For previous 3 weeks of half-year	33,398	17,763 7 0	68,795 20	4,623 11 0	84 7 10	22,470 9 10	4,823	1,675	6,498
Total for 4 weeks ...	44,497	23,584 1 0	90,848 30	5,929 8 0	125 11 10	29,639 4 10	6,665	2,227	8,892
Comparison.									
Total for corresponding week of previous year .. .	14,115	7,893 5 3	27,362 0	1,853 15 0	48 8 6	9,.95 12 9	1,964	544	2,508
Per mile of railway corresponding week of previous year ...	247	137 15 11	478 20	33 6 7	0 13 7	171 4 1	..	.	.. .
Total to corresponding date of previous year	54,063	29,003 2 0	1,32,295 30	8,301 6 0	217 0 3	37,521 8 3	7,626	2,178	9,804

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		R	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅕	9,796	171	57⅕	7,169	125	57⅕	,17,663	170	57⅕	8,97,659	162	... ..	20,009

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,461	412 7 0	21,813 20	575 9 0	8 8 0	996 8 0	338½	155	493½
Or per mile of railway	......	34 5 11	......	47 15 5	0 11 4	83 0 8	......	......	......
For previous 3 weeks of half-year	6,554	1,114 5 0	69,980 10	1,703 5 0	17 3 8	2,834 13 8	937½	402	1,339½
Total for 4 weeks ...	9,015	1,526 12 0	91,793 30	2,278 14 0	25 11 8	3,831 5 8	1,276	557	1,833
Comparison.									
Total for corresponding week of previous year	3,241½	541 11 2	13,141 30	291 9 0	7 12 0	841 0 2	342	151	493
Per mile of railway corresponding week of previous year .	......	45 2 2	......	24 4 9	0 10 4	70 1 4	......	......	......
Total to corresponding date of previous year	13,144½	2,171 1 2	85,854 10	1,911 9 0	32 14 6	4,115 8 8	1,333	639	1,972

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	841	70	12	997	83	12	39,636	77	12	37,943	74	......	1,693

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 74⅝ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,296	3,987 5 0	97,434 20	3,982 12 0	84 8 0	8,054 9 0	681	778¾	1,459¾
Or per mile of railway	.	53 4 11	. ....	53 3 11	1 2 1	107 10 11	......	......	......
For previous 3 weeks of half-year	14,140	10,316 14 0	2,75,724 0	10,752 8 0	222 5 6	21,291 11 6	1,769	2,286¾	4,055¾
Total for 4 weeks ...	19,436	14,304 3 0	3,73,158 20	14,735 4 0	306 13 6	29,346 4 6	2,450	3,065½	5,515½
Comparison.									
Total for corresponding week of previous year ..	4,928½	3,660 0 8	1,07,132 30	4,263 2 0	141 3 6	8,064 6 2	680	946	1,626
Per mile of railway corresponding week of previous year	......	48 14 11	.. .	56 15 11	1 14 2	107 13 0	......	......	......
Total to corresponding date of previous year	18,364½	13,729 6 6	3,74,230 20	19,217 7 0	558 7 6	33,505 5 0	2,624	6,047	8,671

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74⅝	8,064	108	74⅝	8,055	108	74⅝	3,69,235	115	74⅝	2,93,849	91	......	75,386

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,735	5,019 4 0	7,783 20	290 9 0	7 2 0	5,316 15 0	906	62	968
Or per mile of railway	......	225 9 4	... ..	13 0 11	0 5 2	238 15 5	....	.....	..
For previous 3 weeks of half-year	50,983	12,867 15 0	25,446 30	861 4 0	19 10 10	13,748 13 10	2,465	162	2,627
Total for 4 weeks ...	70,718	17,887 3 0	33,230 10	1,151 13 0	26 12 10	19,065 12 10	3,371	224	3,595
Comparison.									
Total for corresponding week of previous year	22,361½	5,703 10 2	8,166 0	289 14 0	10 7 9	6,003 15 11	895	73	968
Per mile of railway corresponding week of previous year ..	......	256 5 6	. .	13 0 5	0 7 7	260 13 6	....	.....	..
Total to corresponding date of previous year	76,026	19,013 6 6	29,198 30	948 1 0	25 12 9	19,987 4 3	3,487	385	3,872

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	6,004	270	22¼	5,317	239	22¼	2,13,216	223	22¼	2,22,446	232	9,230	... .

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 19th January 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	135,160	67,140 0 0	5,06,810 0	1,16,420 0 0	14,230 0 0	1,97,790 0 0	21,252	27,098	48,350
Or per mile of railway	201	100 0 0	753 0	173 0 0	*3 0 0	276 0 0		.	. .
For previous 2 weeks of half-year	225,910	1,16,090 0 0	8,89,830 0	2,31,380 0 0	28,600 0 0	3,76,070 0 0	36,862	54,426	91,288
Total for 3 weeks ..	361,070	1,83,230 0 0	13,96,640 0	3,47,800 0 0	42,830 0 0	5,73,860 0 0	58,114	81,524	1,39,638
Comparison.									
Total for corresponding week of previous year .	123,583	61,264 0 0	4,64,730 0	98,938 0 0	12,243 0 0	1,72,445 0 0	21,369	24,233	45,602
Per mile of railway corresponding period of previous year	192	95 0 0	721 0	154 0 0	*2 0 0	250 0 0	..	.... .	......
Total to corresponding date of previous year	406,400	1,79,339 0 0	12,85,083 0	2,73,211 0 0	35,914 0 0	4,88,464 0 0	63,865	73,600	1,37,465

* Excluding steam-boat earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs	Rs.	Rs.	Rs.
645	1,72,445	267	673	1,97,790	294	645	78,38,170	280	673	*87,47,336	309	9,09,160	......

* Audited up to week ending 15th December 1888.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 26th January 1889, *on* 673 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	127,705	67,430 0 0	5,10,870 0	1,06,910 0 0	16,250 0 0	1,90,590 0 0	21,489	28,312	49,801
Or per mile of railway ..	190	100 0 0	759 0	159 0 0	*3 0 0	262 0 0	..	......	......
For previous 3 weeks of half-year	361,070	1,83,230 0 0	13,96,640 0	3,47,800 0 0	42,830 0 0	5,73,860 0 0	58,114	81,524	139,638
Total for 4 weeks ...	488,775	2,50,660 0 0	19,07,510 0	4,54,710 0 0	59,080 0 0	7,64,450 0 0	79,603	109,836	189,439
COMPARISON.									
Total for corresponding week of previous year .	a138,997	89,384 0 0	†8,60,458 0	74,158 0 0	19,985 0 0	1,83,827 0 0	21,148	21,886	43,034
Per mile of railway corresponding period of previous year .	215	139 0 0	1,334 0	115 0 0	*4 0 0	258 0 0	... ..	... ..	......
Total to corresponding date of previous year	545,403	2,68,723 0 0	21,45,541 0	3,47,669 0 0	55,899 0 0	6,72,291 0 0	85,013	95,486	180,499

* Exclusive of steam-boat earnings.
† Includes ballast train.
a Due to mela passengers held in Nudia and larger amount of fish carried.

FINANCIAL YEAR

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,83,827	285	673	1,90,590	283	645	80,21,997	289	673	*89,45,766	309	9,23 769	......

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	24,690	9,160 0 0	48,840 0	2,820 0 0	100 0 0	12,080 0 0	3,597	2,075	5,672
Or per mile of railway ..	198	73 0 0	391 0	23 0 0	1 0 0	97 0 0	... .	......	......
For previous 2 weeks of half-year	41,890	14,710 0 0	75,400 0	4,170 0 0	2,180 0 0	21,060 0 0	6,132	3,557	9,689
Total for 3 weeks ...	66,580	23,870 0 0	1,24,240 0 0	6,990 0 0	2,280 0 0	33,140 0 0	9,729	5,632	15,361
COMPARISON.									
Total for corresponding week of previous year	24,099	9,219 0 0	39,752 0	2,574 0 0	20 0 0	11,813 0 0	3,303	1,907	5,210
Per mile of railway corresponding period of previous year	193	74 0 0	318 0	20 0 0	......	94 0 0	......	......	......
Total to corresponding date of previous year	73,176	25,341 0 0	1,18,460 0	7,366 0 0	248 0 0	32,955 0 0	9,909	5,721	15,630

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,813	94	125	12,080	97	125	5,38,539	103	125	*5,75,328	110	36,789	......

* Audited up to week ending 15th December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 2?th January 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	25,100	8,800 0 0	41,140 0	2,150 0 0	1,080 0 0	12,090 0 0	3,597	2,075	5,672
Or per mile of railway ...	201	71 0 0	329 0	17 0 0	9 0 0	97 0 0	... ..	......	
For previous 3 weeks of half-year ...	66,580	23,870 0 0	1,24,240 0	6,990 0 0	2,280 0 0	33,140 0 0	9,729	5,632	15,361
Total for 4 weeks ...	91,680	32,730 0 0	1,65,380 0	9,140 0 0	3,360 0 0	45,230 0 0	13,326	7,707	21,033
Comparison.									
Total for corresponding week of previous year ...	25,020	10,452 0 0	46,873 0	2,407 0 0	2,170 0 0	15,029 0 0	3,303	1,907	5,210
Per mile of railway corresponding period of previous year ...	200.	84 0 0	375 0	19 0 0	17 0 0	120 0 0	. .	.....	.....
Total to corresponding date of previous year ...	98,205	35,793 0 0	1,65,833 0	9,773 0 0	2,418 0 0	47,984 0 0	13,212	7,628	20,840

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 28th January 1888.			Receipts for week ending 20th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	15,029	120	125	12,090	97	125	5,53,568	103	125	*5,87,468	109	33,900	..

* Audited up to week ending 27th October 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th January 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts	Weight carried	Receipts.			Coaching	Merchandise.	Total
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14 280	4,300 0 0	13,860 0	1,500 0 0	270 0 0	6,070 0 0	2,502	602	3,104
Or per mile of railway ..	166	50 0 0	161 0	18 0 0	3 0 0	71 0 0	. .	...	....
For previous 2 weeks of half-year ...	22,500	8,010 0 0	23,630 0	2,760 0 0	150 0 0	10,920 0 0	4,322	1,032	5,354
Total for 3 weeks ...	36,780	12,310 0 0	37,490 0	4 260 0 0	420 0 0	16,990 0 0	6,824	1,634	8,458
Comparison.									
Total for corresponding week of previous year ...	13,458	4,353 0 0	15,289 0	1,893 0 0	199 0 0	6,445 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year ..	156	51 0 0	178 0	22 0 0	2 0 0	75 0 0	. ...	....	..
Total to corresponding date of previous year ...	42,075	13,388 0 0	34,263 0	4 022 0 0	528 0 0	17,938 0 0	7,455	1 857	9,312

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs
86	6,415	75	86	6,070	71	86	2,43,876	68	86	*2,40,041	66	.	3,835

* Audited up to week ending 15th December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th January 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,120	4,860 0 0	13,230 0	1,460 0 0	240 0 0	6,560 0 0	2,402	702	3,104
Or per mile of railway ...	176	57 0 0	154 0	17 0 0	2 0 0	76 0 0	......	....	
For previous 3 weeks of half-year ...	36,780	12,310 0 0	37,490 0	4,260 0 0	420 0 0	16,990 0 0	6,824	1,634	8,458
Total for 4 weeks ..	51,900	17,170 0 0	50,720 0	5,720 0 0	660 0 0	23,550 0 0	9,226	2,336	11,562
Comparison.									
Total for corresponding week of previous year	13,095	4,994 0 0	*30,222 0	954 0 0	261 0	6,209 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year	152	58 0 0	351 0	11 0 0	0 0	72 0 0	......	......	.
Total to corresponding date of previous year ...	55,170	18,382 0 0	64,485 0	4,976 0 0	789 0 0	24,147 0 0	9,340	2,476	12,416

* Includes 15,755 maunds ballast trains.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 28th January 1888			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,209	72	86	6,560	76	86	2,50,085	68	86	*2,45,487	66	....	4,598

* Audited up to week ending 22nd December 1888.

ASSAM-BEHAR STATE RAILWAY.

(Purneah Section.)

Approximate Return of Traffic week ended 19th January 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	2,380	1,330 0 0	16,470 0	1,050 0 0	30 0 0	3,310 0 0	532	532	1,064
Or per mile of railway	63	35 0 0	4[illegible]3 0	51 0 0	1 0 0	87 0 0	......	......	... .
For previous 2 weeks of half-year ...	3,917	1,450 0 0	36,240 0	2,970 0 0	50 0 0	4,470 0 0	936	936	1,872
Total for 3 weeks ...	6,297	2,780 0 0	52,710 0	4,020 0 0	80 0 0	7,780 0 0	1,468	1,468	2,936
Comparison.									
Total for corresponding week of previous year	2,841	974 0 0	16,797 0	1,256 0 0	25 0 0	2,255 0 0	546	546	1,092
Per mile of railway corresponding period of previous year. .	73	25 0 0	431 0	32 0 0	1 0 0	58 0 0	......	......	......
Total to corresponding date of previous year	7,624	2,728 0 0	55,612 0	4,222 0 0	160 0 0	7,108 0 0	1,638	1,638	3,276

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 21st January 1888.			Receipts for week ending 19th January 1889.			Total receipts from 1st April 1887 to 21st January 1888.			Total receipts from 1st April 1888 to 19th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	2,255	58	38	3,310	87	39	94,141	57	38	*1,40,265	88	46,124	......

* Audited u to week ending 15th December 1888.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th January 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week	2,550	800 0 0	21,590 0	1,430 0 0	30 0 0	2,260 0 0	532	532	1,064
Or per mile of railway ...	146	21 0 0	568 0	38 0 0	1 0 0	60 0 0		......	..
For previous 3 weeks of half-year	6,297	2,780 0 0	52,710 0	4,920 0 0	80 0 0	7,780 0 0	1,468	1,468	2,936
Total for 4 weeks ...	8,847	3,580 0 0	74,300 0	6,350 0 0	110 0 0	10,040 0 0	2,000	2,000	4,000
Comparison.									
Total for corresponding week of previous year ...	4,784	1,807 0 0	25,825 0	1,531 0 0	23 0 0	3,361 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	122	46 0 0	662 0	39 0 0	1 0 0	86 0 0	......	....	......
Total to corresponding date of previous year	12,388	4,538 0 0	81,437 0	5,753 0 0	183 0 0	10,469 0 0	2,184	2,184	4,368

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
39	3,361	86	38	2,860	60	39	97,502	58	38	*1,42,236	87	44,734	...

* Audited up to week ending 22nd December 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th January 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... .	3,220	1,111 0 0	15,829 0	828 0 0	13 0 0	1,952 0 0	509	254	763
Or per mile of railway	118	41 0 0	581 0	30 0 0	1 0 0	72 0 0	....	......	....
For previous 2 weeks of half-year	8,210	2,779 0 0	39,461 0	2,058 0 0	39 0 0	4,876 0 0	1,382	1,367	2,749
Total for 3 weeks ...	11,430	3,890 0 0	55,290 0	2,886 0 0	52 0 0	6,828 0 0	1,891	1,621	3,512
Comparison.									
Total for corresponding week of previous year	3,649	1,281 0 0	20,560 0	982 0 0	12 0 0	2,275 0 0	509	565	1,074
Per mile of railway corresponding week of previous year ...	134	47 0 0	754 0	36 0 0	...	83 0 0	.....	......	
Total to corresponding date of previous year	12,174	4,407 0 0	80,978 0	3,818 0 0	190 0 0	8,415 0 0	2,036	2,008	4,044

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
27¼	2,275	83	27¼	1,952	72	27¼	74,508	65	27¼	81,840	72	.332	.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th January 1889, *on* 273 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	38,153	13,363 0 0	1,40,840 0	13,730 0 0	3,139 0 0	30,232 0 0	5,997	5,107	11,104
Or per mile of railway	140	49 0 0	516 0	50 0 0	3 0 0	102 0 0*	......	......	......
For previous 2 weeks of half-year	98,073	33,909 0 0	3,67,643 0	33,818 0 0	8,351 0 0	76,078 0 0	14,452	14,711	29,163
Total for 3 weeks ...	136,226	47,272 0 0	5,08,483 0	47,548 0 0	11,490 0 0	1,06,310 0 0	20,449	19,818	40,267
Comparison.									
Total for corresponding week of previous year on 259 miles open	56,976	27,556 0 0	2,17,706 0	23,807 0 0	3,004 0 0	54,367 0 0	8,231	9,279	17,510
Per mile of railway corresponding week of previous year ...	220	107 0 0	841 0	92 0 0	1 0 0	200 0 0	......	......	......
Total to corresponding date of previous year	173,272	73,264 0 0	7,79,728 0	83,784 0 0	12,196 0 0	1,69,244 0 0	27,152	31,841	58,993

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

Note.—Decrease in passenger traffic due to Maghi Purnamasi méla having taken place in the corresponding week of the previous year.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 28th January 1888.			Receipts for week ending 26th January 1889.			Total receipts from 1st April 1887 to 28th January 1888.			Total receipts from 1st April 1888 to 26th January 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	54,367	210	273	30,232	111	251·34	14,40,466	137	264·49	13,37,120	120	....	1,03,346

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 19th January 1889	7,777
Corresponding week last year	7,171
Increase	606
Receipts from 1st to 19th January 1889	14,964
From 1st to 21st January 1888	16,451
Decrease	1,487
	Miles.
Miles open week ending 19th January 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 19th January 1889	152 7 10
Corresponding week last year	140 9 7
Increase	11 14 3

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 6th February 1889.

REGISTERED No. 29.

No. 7 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 13, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupee per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

SCARCITY IN BEHAR.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 6th February, 1889.

RESOLUTION.

READ—

Letter No. 84G.F., dated 24th January, 1889, from the Commissioner of Patna, reporting upon the prospects of the crops and condition of the people in the districts of that Division for the fortnight ending the 15th January, 1889.

THIS report has been prepared since the date on which the Lieutenant-Governor completed his tour through the distressed portion of the Patna Division, and touches on some of the topics discussed on the occasion of that visit. The general result of His Honor's enquiries was to confirm the estimate of the situation made as soon as the result of the winter harvest was known, and reported on the 10th December to the Government of India. Briefly it may be said that the yield of that crop was deficient throughout Behar generally, but the prospects of the *rabi* are at least fair, and the stocks from previous harvests are quite as large as usual. While this resolution was under preparation, the Lieutenant-Governor received reports of good rain, varying from 1½ to 2½ inches, having fallen over the whole of Behar on the last days of January. This may be expected to secure a good *rabi* wherever a spring crop has been sown and to keep prices steady; it will allow of cheena (a millet) being sown, and so adding something to the food-supply in April, and will have also the effect of inducing people to plough their lands at once,

while the most serious symptom noticed by the Lieutenant-Governor, viz., the deficiency of water in the tanks, will, to some extent have been remedied. None the less the circumstances are such as to call for watchfulness, for liberality in providing earthwork on roads somewhat in excess of that given in normal years, and for advances under the Land Improvement Act to zemindars willing to construct petty irrigation works, such as those on account of which the Lieutenant-Governor has by orders issued on the 1st instant granted a loan of Rs. 50,000 on the recommendation of the Collector of Gya. Further measures do not seem to be required at present except in a limited area, and it is hoped that the necessity for action involving any very serious expense will not arise. The area referred to as exceptionally situated is a narrow strip, stretching for about 90 miles from east to west along the Nepal frontier, through the northern parts of the districts of Chumparun, Mozufferpore, and Durbhunga, with some extension, not so clearly defined, in Bhagulpore. In the eastern part of this tract, as noticed by the Collector of Durbhunga after a careful enquiry village by village, the area of crop failure is not so continuous as elsewhere, fair and tolerable patches of land being interspersed with those on which the loss was almost complete. The rainfall in the afflicted area was very small, and it ceased prematurely, with the result that the winter rice crop, on which the cultivators mainly depend, was almost all lost, and the *rabi*, which is of no great importance in that neighbourhood, was sown under unfavourable conditions. This, taken with the high prices at present prevalent, has produced among the poorer inhabitants of the area in question a certain amount of distress, very different in degree from that felt during actual famine, but nevertheless quite unmistakeable, and such as to call for relief.

2. This relief has hitherto been afforded mainly in the form of employment on earthwork, which has been provided throughout the distressed area in a great number of places, so that every one desirous of earning a maintenance can get it within easy reach of his or her own home. The wages given are fixed in accordance with the provisions of the Famine Code according to the varying price of common rice, which in that part of the country is the staple-food of workmen, the scale being so adjusted that those who accept piece-work can earn the value of a full ration on the scale laid down by the Code, while those who can only perform light work get 75 per cent. of the value of such a ration. Work has to be given to all who seek it without exception, to women and children and those unused to the *khoodali*, as well as to skilled labourers, and payments are made daily under strict supervision. A large number of applications have been received for advances under the Land Improvement and the Agriculturists Loans Acts, and these are, for the most part, under enquiry. A small grant has also been made for charitable relief, with the intention that as long as there is no acute distress, it shall be used only for the support of wanderers, and in other urgent cases. The system adopted may therefore be described as consisting in supplying work for all on the wages prescribed by the Code, and supplementing the relief thus afforded by loans in approved cases after due enquiry, and a sparing resort to charitable assistance. In other words, the system laid down by the Famine Code is being adopted gradually and tentatively in adjustment to the deepening necessities of the situation. The works have been, and in some cases still are, merely test works, intended to lead up, should occasion arise, to the full development of large works conducted by professional agency; to be supplemented by circle establishments (organised at present only on very modest lines) for village enquiry and gratuitous relief. The aim of the Government has been to secure itself from being taken by surprise, and to arrange such an organisation as may easily be developed gradually in strength sufficient to cope with deepening distress.

3. The Lieutenant-Governor was most gratified to observe that these instructions had been observed by the district officers under the direction of the Commissioner; they have shown great zeal, thoroughness and intelligence in this work, which has been carried on with a due sense of their responsibility for preserving life on the one hand, and on the other for observing economy in the expenditure of public money. The statements submitted by Mr. Power, Collector of Chumparun, with this report show a daily average of 5,535 labourers employed in

his district during the fortnight on works carried on at the expense of this Government, 1,937 on private works, and 963 on the works of the District Board,—in all 8,435. Of these, 1,476 are women and 1,304 boys. The Government works in Chumparun, 32 in number, and also those conducted by private agency, take the form of facilitating irrigation, by re-excavating old tanks, and by damming up hill streams, and distributing the water thus collected at a head by means of pynes or channels. The labour for damming the streams was generally obtained simply by calling the villagers together, who worked voluntarily to save their crops by a traditional method. To the energy and intelligence of Mr. Henry, the late Collector, and to the professional skill and supervision of Mr. Sealy, District Engineer, are due the carrying out of these most useful works, but their task was greatly facilitated by the fact that the dams and the channels were all in the property of a single owner, the Maharajah of Bettiah, who gave all possible assistance, and there was none of the friction arising from the existence of numerous shareholders or divided ownership, which has in other districts baffled the endeavours of the local officers to get similar works undertaken. These irrigation channels have done immense good, and their value is thoroughly appreciated by the people. They are also so located as to make the assistance afforded to those wanting employment very complete. In Mozufferpore 927 persons were employed on the roads, at the expense of the District Board, during the first week of the fortnight, and the number during the second week increased to 4,100. The excavation of tanks at Government expense employed 1,902 persons, of whom 718 were women and 288 children. Mr. Bolton, Collector of Mozufferpore, writes that he has refrained from undertaking tank work more extensively, because the entire cost is borne by Provincial funds, while in his opinion the zemindars, who derive the chief gain from works of this class, should contribute a portion of the cost. He proposes in future to offer to excavate tanks if the zemindars pay half the expenses, which the Collector can advance under the Land Improvement Act. This suggestion is approved in principle by the Lieutenant-Governor, who would, however, leave to the discretion of the local officers the conditions under which assistance should be demanded from zemindars rather than lay down a hard-and-fast rule such as that proposed. The Commissioner's report does not give the actual number employed during the fortnight on the works in Durbhunga, but from the figures given to the Lieutenant-Governor while on tour, the daily average employed by the District Board on roads in the affected tract appears to have been about 4,000 The Lieutenant-Governor observes with satisfaction that private persons, in particular the Maharajah of Durbhunga, are excavating tanks on their own account. No expense has as yet been incurred by Government, but a list is being made of tanks upon which work can be commenced hereafter, should occasion arise.

4. A large share of the burthen of providing test works and ultimately relief works has fallen on the District Boards, the sums devoted to this purpose during the current year being in Gya, Rs. 13,000; in Mozufferpore, Rs 6,000; in Chumparun, Rs. 11,000; and in Durbhunga, about Rs. 1,00,000. Much of this is only what the District Boards would in ordinary circumstances have devoted to the repair and raising of the roads in the affected tracts; but in some instances they have forestalled the period for such work, and in others they have specially diverted sums from other parts of the district for relief purposes, and in all cases they have accepted the necessity of regulating their rates and methods of payment in accordance, more or less complete, with the requirements of the Famine Code. In a case like the present, where in no district is distress general, or extended beyond limited tracts, there is a natural tendency on the part of members representing the unaffected area to object to money and establishment being diverted from the usual channels of district expenditure to the special purpose of relief in the distressed area. But in the Lieutenant-Governor's opinion there can be no doubt that the duty of providing relief in the way of work should fall in a gradual scale with the deepening of distress first, on Local, secondly, on Provincial, and thirdly, on Imperial funds. The District Boards are not an organisation altogether outside the Government, but form an integral part of the administration of the country, specially organised

for the proper local expenditure of funds raised by local taxation, and from this point of view it becomes their duty, just as it is that of other departments of Government in time of serious distress or famine, to subordinate the ordinary objects and methods of their expenditure to the special consideration of saving life. This is the general principle. the application of which, however, has to be regulated, both in regard to funds and establishment, as well as in regard to methods, by the intensity of the distress in each particular case. The Lieutenant-Governor does not doubt that, should distress be found to deepen in the early months of the coming financial year, the District Boards will not be unwilling to act on the principle above laid down, and to devote (especially in the case of Mozufferpore) considerably larger sums to the special purpose of providing relief in the affected tracts. The Lieutenant-Governor is prepared, apart from the works which are or may be carried out by their own civil or professional agency, to assist the District Boards with additional establishment, and where, by employing the methods prescribed in the Famine Code, the cost of the work is materially increased beyond what under ordinary conditions it would have amounted to, the Lieutenant-Governor is willing to consider favourably applications for recoupment from Provincial funds.

5. In order to legalise the action which the Boards may take for the relief of distress, the Lieutenant-Governor has consented, at the suggestion of the Commissioner of Patna, to extend section 99 of the Local Self-Government Act of 1885 to that Division.

6. In Chumparun and Mozufferpore all relief work is managed by officers of Government or by the District Board directly, while in Durbhunga the intervention is permitted of gangers, or petty contractors. These men are supposed to make no profit out of the earthwork, being remunerated for their services by the rate given for "finishing," &c., and they are compelled by rule to employ all comers. The Commissioner desired to extend the system prevalent elsewhere to Durbhunga also, as he is not satisfied that the arrangements made in the latter district are such as to ensure that all applicants will really receive work, while the Chairman of the Local Board wished to retain an agency which he was satisfied he could control, and which certainly secured excellent results as far as the quality of the work done is concerned. The Lieutenant-Governor was convinced by the result of local enquiries that all applicants were admitted to the works, and that all who worked were regularly paid, so that the system had acted well up to the date of inspection. Moreover, he was satisfied that owing to the extraordinarily bountiful rice crop of the previous year and to other causes, the people in this sub-division of Madhubani are not as yet so hard pressed as their neighbours to the west, and that for the present at all events it is unnecessary to apply to this tract the full rigidity of the Famine Code. For these reasons, Sir Steuart Bayley is most unwilling to interfere in the details of arrangements made by a Board like that of Durbhunga, which has hitherto borne the whole cost of charitable relief, and is willing to permit the continuance of the system, as a temporary arrangement, as long as no acute distress is felt in Durbhunga, provided a proper agency is appointed to secure that all who seek work obtain it, and that wages are paid regularly. The fact that these objects have been secured up to a certain date, when distress was but little felt, is not, in His Honor's opinion, a sufficient assurance that they will always be attained. As suggested by the Commissioner, the system must be supplemented by the provision of task work, under direct management, for the feeble.

7. The Lieutenant-Governor is glad to receive the Commissioner's statement that grain stocks are everywhere reported to be sufficient, that prices are fairly stationary, and that there is no apparent increase of crime. The Lieutenant-Governor was specially glad to observe that wandering had nowhere commenced, as it does where famine is felt, and the small expenditure on charitable relief denotes the absence of cases of this class. The works now open serve not merely to mitigate immediate distress, but are also a test by which the pressure of the scarcity can be gauged. Should the attendance at these at any time indicate that the resources of the villagers are exhausted, it may be necessary to adopt the more active measures of relief, for which timely preparations have been made, but the Lieutenant-Governor hopes that the

recent rain will have done much to dissipate this danger. The Collector of Durbhunga reports in a demi-official letter that it has already had an excellent effect, and that the people are busy putting down *cheena* and *mung* which they will harvest in Baisakh, and which will help to tide them over to the next bhadoi. Ploughing for the next dhan crop and the preparation of indigo lands are also reported to have begun and to be giving work to the labouring classes.

ORDER.—Ordered, that a copy of this Resolution be submitted for the information of the Government of India, and that a copy be forwarded to the Commissioner of Patna for information and guidance.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

No. 3909—182Fam., dated Calcutta, the 10th December 1888.

From—P. NOLAN, ESQ., Secretary to the Govt. of Bengal, Revenue Department,
To—The Secretary to the Govt. of India, Revenue and Agricultural Department.

I AM directed to submit, for the information of the Government of India, the following report on the state of the crops in the Lower Provinces, and on the relief measures which have been or will have to be adopted.

2. It is within the knowledge of the Government of India that the rice crop reaped in the autumn season was in many places destroyed or injured by floods in July or August, and that the early cessation of the periodical rains has greatly diminished in many districts the yield of the winter harvest. The effect of the floods was most seriously felt in Orissa, and the attention of this Government was, in the first instance, directed to that division, the condition of which was briefly intimated in the telegraphic summary of the state of the weather and crops on the 21st of March 1888. With the gradual development of the symptoms of distress, periodical reports have been duly submitted for the information of the Government of India in the correspondence marginally noted.

No. 2633—99Fam., dated 9th August 1888.
No. 3066—119Fam., dated 10th September 1888.
No. 125T—R, dated 29th September 1888.
No. 292T—R, dated 7th November 1888.

It was at one time anticipated that the damage done to the autumn rice would almost certainly be followed by the loss of the winter crop on the unirrigated tracts, but this result has been averted by an unexpected and most opportune fall of rain in November, varying from 0·43 to 7·66 inches. The Lieutenant-Governor having, during his recent tour through all the districts of Orissa, had the means of making personal observations, as well as of consulting the local officials and experienced residents, is happy to be able to state that there is now no reason for serious apprehension in regard to that division. This statement does not extend to the Tributary Mehals, as to which the information received is imperfect, owing to the absence of communications, and the difficulty of ascertaining with precision the real facts in States administered by Chiefs possessing a considerable degree of independence. All that can be said in regard to these States is that there is no reason to expect any distress which will be beyond the resources of the Chiefs themselves. The expenditure sanctioned on account of relief in Orissa up to date is as follows:—

	Rs.
Road works	28,372
Charitable relief	15,000
Total ...	43,372

The sum of Rs. 90,000 was also assigned for loans under the Agriculturists Loans Act, 1884. It is believed that the outlay will be kept within these limits.

3. In Bengal Proper there has never been any anxiety as to the Eastern districts, the question in their case being only as to the amount of surplus food available for exportation. This will be considerable in the Chittagong Division. The autumn and winter harvests in the Western districts have been bad, and they cannot be said to be altogether out of danger, but there is no immediate prospect of their requiring relief.

4. Anxiety is now concentrated on Behar, which, for the present purpose, may be taken to include the Patna Division, with the adjoining district of Bhagulpore, having a total population of 17,030,102 souls. Intimation of the condition of this part of the country was

conveyed to the Government of India in the telegraphic summary of weather and crops for the week ending 23rd October 1888, and in subsequent summaries, while a copy of the correspondence on the subject has recently been forwarded to the Government of India with my letter No. 3682—156Fam., dated the 20th November 1888.

The following statement indicates the extent to which the rainfall has been deficient—

DISTRICT.	RAINFALL FROM JANUARY TO NOVEMBER.			RAINFALL OF CRITICAL MONTHS, SEPTEMBER AND OCTOBER.		
	Normal.	1873 (last year of scarcity).	1888.	Normal.	1873.	1888.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Patna	42·59	34 08	47·63	10·16	1·37	5·24
Gya	42·38	37·59	50·70	9·41	2·69	6·50
Shahabad	41 82	32·89	43 23	10·58	2·43	8·31
Mozufferpore	44·18	33·50	42·01	11·28	2·52	3·73
Durbhunga	46·91	27·35	41·64	11·85	3·87	5·36
Sarun	43 73	33·57	39·01	11·58	1·12	8·25
Chumparun	49·55	36·85	43·26	12 47	0·51	7·62
Bhagulpore	49·34	31·56	50·82	12·71	4·60	7·27
Average	45·06	33·42	44·80	11·25	2·39	6·53

The price of common rice, which is the readiest index to the cost of supporting life in Behar, is given below :—

DISTRICT.	Second fortnight of November 1888. Seers per rupee.	Corresponding fortnight, 1887. Seers per rupee.	Corresponding fortnight, 1873. Seers per rupee.
Patna	16·5	23	14
Gya	14	17	10·5
Shahabad	14·8	16	13
Mozufferpore	14	24	12
Durbhunga	16·4	22	12
Sarun	12	21	12
Chumparun	17	17	13
Bhagulpore	15·12	19	12·6

The following table has been supplied by the Commissioner to show the estimated outturn of crops :—

DISTRICT.	SUB-DIVISION OR TRACT.	OUTTURN, ACTUAL OR ESTIMATED IN ANNAS OF A RUPEE.				COMPARATIVE IMPORTANCE IN ANNAS OF A RUPEE.		
		1888.			1889, *Rubbee.*			
		Rubbee.	*Bhadoi.*	*Aghani.*		*Rubbee.*	*Bhadoi.*	*Aghani.*
Chumparun	All the rest (a)	......	12	9	......	3	8	5
	Dhaka Thana (a)	......	4	3	......	3	8	5
Mozufferpore	Sitamarhi	8½	10	4	......	4¼	2¾	8¾
	Sadar	8	10	8	......	4¾	4¾	6½
	Hajipur	6	8	8	......	5¾	4	6¾
Durbhunga	Madhubani	......	10	5	2	1½	8	11½
	Sadar	......	10	6	2	3	4½	8½
	Tajpur	16	10	10	5	7	5½	3¾
Sarun	Gopalganj (a)	12	14	9	8	6	6	4
	Sewan (a)	18	14	8	7	6	6	4
	Sadar (a)	13	7	8	5	6	6	4
Patna	Danapur	6	2	6	......	5	3	
	Sadar	12	2	3	......	7	1	8
	Barh	8	1	2	......	7½	2½	6
	Behar	8	2	3	......	4	1	11
Gya	Sadar (b)	11	6	8	......	8½	1½	11½
	Jahanabad (b)	11	6	8	......	3	1	12
	Nawada (b)	11	6	8	......	2½	1½	12½
	Aurungabad (b)	11	6	8	......	7	½	8½
Shahabad	Sasaram (a)	8	16	4	......	5	2	9
	Bhabua (a)	12	2	4	......	5	2	9
	Buxar (a)	12	9	8	......	5	2	9
	Sadar (a)	12	2	8	......	5	2	9

(a) The District Officer has not given separate figures for the comparative importance of the several harvests in the different parts of his district.
(b) The District Officer has not given separate figures for the outturn in the different parts of his district.

It may be compared with the following estimate of the outturn of 1873-74, compiled mainly from Mr. MacDonnell's volume entitled "Food-grain Supply and Famine Relief in Behar and Bengal."

Name of District.	1873.			1874.	Remarks.
	Rubbee.	*Bhadoi.*	*Aghani.*	*Rubbee.*	
	Annas.	Annas.	Annas.	Annas.	
Shahabad ..	16	4	2	16	The *rubbee* of 1874 was "fair average," though no rain fell in October or November 1873.
Sarun ...	13	10	2	7	Yield of subsidiary crops 10 annas.
Durbhunga ...	16	9	3	9	The *rubbee* and *aghani* of 1872 were good, and there was at least an average stock in hand—perhaps more. The great drought of 1873 in many places rendered it impossible to sow *rubbee* for 1874.
Mozufferpore ...	16	12	5	10	
Chumparun ...	14	10	2	14	*Rubbee* of 1873 is not precisely estimated, but the crops of that year generally are said to have been good; the *rubbee* slightly injured by hailstorms. The Collector made no estimate of the *rubbee* of 1874. Mr. MacDonnell entered it as "average," and added in a foot-note that on further consideration he thought this too favourable.
Gya	No estimate.	5	8	16	The figures for Gya are of little authority. The good *rubbee* crop in 1874 is attributed to rain in March.

5. The general result of this information is to suggest that considerable scarcity will be felt in Behar, but that it will be far less than that experienced in 1873 74. The recent rain as shown in the margin, affords a fair prospect of a good *rubbee* crop in the spring. On the whole, the Lieutenant-Governor, as at present advised, does not anticipate any necessity for adopting measures of relief in Behar generally. The people will, in his opinion, be able to tide over their difficulties, with such help as the poorer classes may be able to obtain from their zemindars, or from charity. There are, however, certain tracts of no inconsiderable extent in which the loss has been very marked, and in these it will be desirable to open test works at once, taking such further steps hereafter as circumstances may suggest.

District.	Rainfall in November.
	Inches.
Patna	0·69
Gya	0·57
Shahabad	0·46
Mozufferpore	0·22
Durbhunga (Tajpore) ...	0·30
Sarun	0·23
Chumparun (Motihari) ...	0·23
Bhagulpore	0·27

6. The chief seat of the distress is a tract stretching through Chumparun, Mozufferpore, and Durbhunga, and defined as about 90 miles in length from east to west along the Nepal frontier, taking in the Dhaka thana and parts of Motihari thana and Madhubun outpost of the Chumparun district, parts of the Bairagnia, Majorgunj, Sonbursa, Bela and Sursund outposts, and a small part of Pupri thana in Mozufferpore, and the Jali and Khajowli thanas of Durbhunga. The tract also extends into the Bhagulpore district. In this area the rainfall has been much more limited than elsewhere; in the Chumparun portion it is stated to be 26 to 28 inches, against an average of 55 inches, and to be badly distributed, no rain having

fallen since 9th September. For the Parihar Circle, in the north-east corner of the Sitamurhi sub-division, Mr. Lewhellin gives the following figures :—

	1888. Inches.	1887. Inches.
January	......	2·33
February	......	......
March	·79	·58
April	2·41	·79
May	1·53	8·59
June	2·87	16·36
July	6·63	5·86
August	2·74	19·71
September	·95	3·78
October	......	17·55
Total ...	17·92	75·55

The failure of the winter rice crop on this tract has been almost complete, while in parts the autumn crop failed also, and the prospects of the coming *rubbee* are indifferent.

7. It is believed that distress is also threatening in a strip on both sides of the Bagmutti river, in the Sinhar thana of the Mozufferpore district. In Gya a tract near Sherghati is said to be affected, and in Shahabad parts of the thanas of Bhabua and Chowsa. The Commissioner has not yet been able to supply a map of the worst tracts, but he is preparing one, and the importance of expediting the work has been urged upon him.

8. The Lieutenant-Governor in the early part of last month requested Commissioners to furnish full and accurate information as to crops, and to pay special attention to the repair of roads and improving of ferries used for the purposes of traffic in grain. Mr. Henry, Collector of Chumparun, rendered valuable assistance to cultivators by damming up the streams of his district, so as to utilize the water, and at his suggestion other Collectors have been encouraged to follow his example, the expenditure of a moderate amount from Provincial revenues for the purpose, and the employment of Government Engineers being sanctioned. Mr. Henry has recently been appointed to assist the Commissioner, whose duties are at present very onerous. The general policy adopted in regard to relief is indicated in the following extract from a letter addressed to the Commissioner of the Patna Division on the 5th instant :—

"The action taken by Local Boards in opening test works, and works designed to give relief, is entirely approved. As pointed out by you, 'the attendance on these test works, where the rate of wage to be given must not be in excess of the amount of wage prescribed in the Code, will afford valuable information as to the actual pressure upon the people.' You will understand that, in order really to serve this purpose as a test, these works must be properly supervised to ensure, in the first place, that wages are paid daily as prescribed by section 44 of the Code, without deduction or delay, and in the second place that the rates are duly fixed in accordance with the provisions of Chapter X. It is desirable to give piece-work under section 130 where practicable, as in that case labourers can obtain the full wage. If the system of task work is adopted, care must be taken that the tasks are not excessive, that their performance is enforced, and that the wage does not exceed the maximum defined in section 131. If these prescribed precautions are not observed, test works may not only be useless as an index to the degree of distress prevalent, but positively injurious, as suggesting false conclusions. The Board's works specified in Mr. Martin's note appear to be very suitable. It is, however, desirable that they should be supplemented by plans for further works to be undertaken in case a very large number should have to be accommodated, and the organization should be such as to preclude panic and confusion in the event of a sudden rush sor employment at a critical period, such as occurred in Durbhunga in 1883-84.

"Steps will be taken to prepare for the construction of the line of railway recommended from Durbhunga to Setamarhee should such a work be found necessary, and arrangements will also be made for the survey of the proposed line from Sukri to Joynuggur. The Lieutenant-Governor cannot, however, give any assurance that the railways will be constructed, as the determination of that question rests with the Government of India, and if the lines are not held to be reproductive, the work, regarded merely as one of relief, is open to the objection that the expense will be out of all proportion to the amount of employment given during the continuance of the scarcity. *Pains*, such as those proposed for the Gya and Chumparun districts, will probably afford far more employment at a smaller cost, and officers will be deputed by the Public Works Department to mature the plans proposed for this purpose by Messrs. Grierson and Henry.

"The instructions issued by you to Collectors contemplate the opening of civil agency works at the expense of Government, and this course will probably be necessary in the strip of land along the Nepal frontier, where the failure of crops has been most complete. If these works are of moderate extent, the Lieutenant-Governor would be glad to leave their supervision to District Boards, paying the cost from Provincial funds. Proposals for reasonable advances or grants to District Boards on account of works to be conducted under the

Code in distressed areas will be favourably considered; but it is to be remembered that by the rules for the grant of loans under the Local Authorities Loan Act, 1879, this Government cannot assign more than Rs. 5,000 for any one work without the consent of the Government of India.

"The Board of Revenue will be requested to see that advances for the construction of wells are made by the Opium Department in as liberal a manner as possible during the present season in the distressed areas. As to the definition of these areas for that purpose, you are requested to communicate directly with the Opium Agent. If in any instance the officers of the Opium Department find that the construction of a well is desirable, but that the cost cannot properly be advanced by the Department, the amount can be lent under the Agriculturists' Loans Act, 1884.

"The Lieutenant-Governor entirely approves of your proposals for making advances under the latter Act, and the sum asked for by you on that account in your letter No. 17G—F, dated the 28th November 1888, has been sanctioned in my letter No. 3823—165Fam., dated 3rd December 1888.

"In the same letter I communicated the Lieutenant-Governor's sanction to the sum asked for by you on account of gratuitous relief. It is understood that this money is needed merely for the casual assistance of wanderers and others, whose immediate wants it may be necessary to relieve. The facts reported do not as yet warrant anything of the nature of an organised search through chowkidars or other village agencies for cases of distress—a proceeding which could hardly fail to create the expectation that Government was about to undertake the support of the dependent portion of the population, which, as you are aware, forms a considerable proportion of the whole. The Code contemplates the grant of gratuitous relief only where relief circles have been regularly organised under section 11, and any attempt to give away money on a large scale without such organisation would probably lead to the worst consequences.

"In the sixth paragraph of your circular, dated 29th November 1888, you notice the recommendation of a Collector that Government should import rice with the object of keeping prices down, and in connection with this suggestion you refer to section 14 of the Code, under which local officers may appoint contractors for the supply of grain. It is most desirable to point out that contractors so appointed have nothing to do with importations for purpose of controlling prices, being merely the agents through whom relief officers buy the grain they may require for gratuitous distribution, or for wages paid in kind. Where, owing to the absence of traders, or to the localities affected being difficult of access, a reserve has to be formed, from which grain may be sold, the special orders of Government are required (sections 152, 157). In Behar the commercial class is efficient and communications are excellent—conditions which seem to preclude the idea of any interference with the ordinary course of trade. The Lieutenant-Governor has at present no intention of exercising the power of accumulating reserves, and can anticipate only evil results from any effort which may be irregularly made by local officers to regulate or supplement the ordinary action of the law of supply and demand, by which the necessaries of life are distributed. Such action would very possibly paralyse trade, private individuals being unwilling to compete with the State in supplying the markets; and the officers who might thus destroy the existing channel would be quite unable to supply its place. This should be clearly indicated to Collectors, as they will probably receive many proposals suggesting their interference to put down combinations among the dealers in grain, to use influence for the reduction of prices, to import at the cost of Government and sell cheaply, or otherwise to interfere with the course of trade The temptation to take action in this direction when prices are high is frequently great, and dread that Government officials may yield to it has probably a deterrent influence on private enterprise. On the other hand, a general and beneficial stimulus would be given to the trade by the assurance that its operation will remain free and uncontrolled.

"The result of your call upon Collectors for proposals as to establishments is awaited with interest. The Lieutenant-Governor is disposed to think that the formation of relief circles may be necessary in the area on the Nepal frontier, but that elsewhere it will be sufficient for the present to appoint officers to the charge of such works as may be opened for the purpose of affording relief. If it should subsequently be found desirable to undertake the work of relief organisation on a wider scale, it will always be possible to extend the scope of the system."

9. The following sums have been sanctioned up to date for purposes of relief:—

	Rs.
Loans under the Agriculturists' Loans Act	17,500
Gratuitous relief	4,000
Civil works	4,000

It is, however, understood that this very moderate outlay is no indication of the expenditure which may eventually be necessary.

No. 39G.F., dated Bankipore, the 20th December 1888.

From—JOHN BOXWELL, ESQ., Officiating Commissioner of the Patna Division,
To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit the report for the fortnight ending the 15th December on the prospects of the crops and the condition of the people in the districts of the Patna Division.

PATNA.

2. The Collector writes:—"I have much pleasure in reporting that according to the latest and best information I possess, there is no portion of the district in which the failure of the crops has been so considerable that relief measures will have to be undertaken. On the 28th and 29th November, there was general rain throughout the district, the quantity recorded at the several registering stations varying from ·24 at Hilsa to 1·5 inches at Barh, and this rain has been of immense service to the growing *rabi* crop, and has also enabled the cultivators to sow *rabi* over a considerable additional area. There is now every prospect of a full outturn of *rabi*, which, if realized, will remove all cause for anxiety."

SARUN.

3. The Collector of Sarun writes:—"As you are well aware, Sarun is, humanly speaking, quite secure for the coming season, and I do not expect anything more than the inconvenience which results to the lower classes from a rise in the price of food-grains. The rainfall in the last week of November has done infinite good to the *rabi*. I have already telegraphed to you that the rain seems to have been from an inch to an inch and a half everywhere in the district, and I have now from detailed enquiries little reason to modify this report. The rain has been partial, as it has been all through the year, but it has been sufficient almost everywhere. Private letters confirm the official reports. Prices have fallen, and I have no doubt that under the excellent prospects of the *rabi*, they will fall still further.

SHAHABAD.

4. It is estimated that the *dhan* crop, which is now being harvested all over the district, will yield an average outturn of not less than 8 annas Some damage is reported to have been caused to the crop over a very limited area by hail, and on this area advances will, when necessary, be given under the Agriculturists' Loans Act, and leniency will be shown in collecting Government rents.

The Collector writes:—'*Rabi* is coming up well, and on the whole prospects have much improved of late. I do not think there is any cause for anxiety so far as this district is concerned.

5. From the information now submitted, it will be seen that Patna, Sarun, and Shahabad may be removed from the list of districts in which the condition of the people, present or prospective, need cause any anxiety. In future reports, therefore, I will not trouble Government with detailed information from these districts, but will state from time to time what the *rabi* crop prospects are. I am instructing the Collectors accordingly.

MOZUFFERPORE.

6. *Area affected.*—The area affected by the total or partial failure of the paddy crop remains the same as last reported, viz. a tract of from 300 to 400 square miles in the Sitamarhi sub-division lying along the Nepal frontier from Majorgunge on the north-west to Bheta on the east, and including the villages south of Bheta as far as Charout on the Madhubani boundary. This area is shown in the coloured tracing of the Mozufferpore district map herewith sent. The explanatory statement attached to the map gives information as to the outturn of the *dhan* crop in the various areas of the affected tract, and also as to the population.

To this area of 300 or 400 square miles, above described, may have to be added an unascertained as yet area of Sheohur thana. Mr. Macpherson, late Officiating Collector, has proceeded on a tour through this thana jurisdiction, and I hope to be able in my next fortnightly to give all necessary information regarding this area also.

7. *General state of the affected tracts.*—The outturn of the paddy crop is now estimated at nine annas in the Sudder sub-division and at 11 annas in the Hajipore sub-division, and this estimate the Collector believes to be rather under than over the truth. In both these subdivisions the *rabi* prospects have much improved, great benefit having resulted from the rain which fell on the 28th and 29th November. In Hajipore a 16-anna *rabi* crop is expected. In the Sudder sub-division the prospects of the *rabi* are favourable in the south, but not so good in the north.

Summing up the situation, the Collector writes:—"There is no cause for anxiety with regard to the Hajipore sub-division, and I see no cause for present anxiety with regard to any part of the Sudder sub-division."

As regards the Sitamarhi sub-division, the Collector is unable to report any improvement in the outlook. He quotes from a report furnished by the Sub-divisional Officer as follows:—"There has been no alteration in the state of the affected tracts. Since my last report no

rain has fallen, and the country is getting more and more dry. The tanks are fast drying up, and there is evey reason to apprehend that, even before the hot weather sets in, there will be a great scarcity of water within the above tracts."

The Collector is of opinion that there is serious cause for anxiety with regard to the condition of the people in the affected tracts, the great majority of whom are petty cultivators and labourers who are immediately affected by the failure of the paddy crop, by the high prices of food-grains, and by the loss of employment resulting from there being no paddy crop to cut. Mr. Bolton writes that the planters and zemindars are unanimous in stating that the failure of the paddy crop has been very serious, and that the people are suffering severely in consequence.

Bhadoi and *rabi* are not important crops in the affected area, and the *rabi* is said to be not doing well.

8. It will be seen from the explanatory statement attached to the map that in North Pupri and Sursand, which represent about one-third of the population of the affected tract, the outturn of the *dhan* harvest is estimated at six annas, and in North Sitamarhi, which represent, about one-sixth of the population of the affected tract, at four annas. It seems improbable, therefore. that distress on a large scale will be felt for some time to come over a considerable area of the affected tract.

Works have been opened, but no figures of the attendance upon them which can be considered trustworthy have as yet been submitted by the Collector. The wages given being, in my opinion, in excess of the rate of wage prescribed by the Famine Code, instructions were issued to the Collector to modify his rates accordingly, and I am awaiting information as to the actual wages now paid and the attendance on these works

9. I have deputed the Inspector of Local Works, Mr. King, to carefully inspect all the test works open in Chumparun and Mozufferpore, and to ascertain and report whether the work test is being strictly applied. and whether the wages given are those prescribed in Chapter X of the Famine Code. Upon receipt of Mr. King's report the necessary orders will issue and information will be supplied to Government.

10. At present it may be said that we have no indication of any value, from the test works opened in the Sitamarhi sub-division, as to the pressure upon the people. This information will, however, be supplied in my next report. No works are at present being carried out through tuccavi loans. Zemindars have been invited to take loans for this purpose, and it is expected that some will do so. The Maharajah of Durbhunga has directed the excavation of five tanks at a cost of Rs 10,000.

11. *Gratuitous Relief.*—No gratuitous relief has been given at the expense of Government. In Parihar the numbers of persons receiving such relief from the Maharajah of Durbhunga were as follows :—

279 on the 2nd, 356 on the 3rd, 461 on the 4th, 603 on the 5th, 798 on the 6th, 1,038 on the 7th, and 1,104 on the 8th.

The Collector is now enquiring into this upon the spot, and has made arrangements to obtain quietly information regarding the condition of the infirm and helpless persons in the worst villages of the affected tracts There is no reason to think that the time has come for giving gratuitous relief.

12. *Grain stocks* —Mr. Macpherson's enquiries lead him to believe that the stock of grain in Sitamarhi is sufficient, and that at present it is being hoarded. Importations of grain from surrounding districts are being made, and maize is coming in from Nepal.

13. *Organization of Circles.*—The affected area has been divided into three circles—

1st.—The Majorgunge and Sonbursa outposts in charge of the Sub-Divisional Officer.

2nd.—The Bela outpost and part of the North Sitamarhi thana in charge of the Sub-Deputy Collector

3rd.—The Sursund outpost and part of the Pupri thana in charge of a kanoongo.

In these three circles the officers in charge are recording the outturn of the paddy crop and prospects of the *rabi* village by village, are receiving applications for advances under the Agriculturists' Loans Act, and are making enquiries regarding infirm persons to whom relief may hereafter have to be given.

This sub-division of the affected area into three circles seems sufficient. I have informed Mr. Bolton that if he needs more assistance, I will appoint two kanoongos. I am separately addressing Government regarding superior officers.

The Assistant Superintendent of Police is in the Sheohur thana with instructions to record information regarding the condition of the people there.

14. *Sub-divisional Establishment.*—The whole affected tract has been thus provided for. Upon receiving fuller information as to any further increase of establishment required, I will address Government if necessary

District Engineer's Establishment and Tools.—Such civil agency works as may hereafter be opened will be under the District Engineer for the present. The increase already made to the District Engineer's establishment is shown in annexure to this letter. 1,500 kodalis are kept in reserve and more are being purchased, and the Collector has been asked to arrange for baskets, so that the labour of the women and children may be fully utilized.

GYA.

15. The Collector of Gya furnished the Secretary to Government in the Public Works Department with a coloured map showing the affected areas, and he has sent me a copy of this

map. His estimate, as shown by the map, being less favourable than facts appear to justify, he has been referred to demi-officially. I am now in a position to submit an estimate which I have reason to believe more correctly represents the actual state of things. Mr. Grierson reports an average nine-anna *dhan* crop in his district, and with an average nine-anna crop there need be no apprehension that distress will be felt over any considerable proportion of the district area. I have shown on a tracing which accompanies this report the localities in which the Collector now states " there is apprehension of distress occurring within the next month, and where relief works will probably be necessary."

Details concerning these areas are given in the explanatory statement attached to the map tracing, which I have not, however, coloured. I deem it better to send this information, imperfect as it is, to delaying the divisional report.

16. It will be seen that the revised estimate puts the affected area at 310 square miles with a population of about 147,000 persons Over a tract the population of which represents two-thirds of the population of the affected area, the *dhan* outturn is estimated at from 4½ to 5 annas, and no immediate distress there need be anticipated Over the remaining area the failure of the crop has been almost complete. Mr. Grierson shows another area " where there is no immediate apprehension of distress, but where relief measures may be necessary later on." This area he estimates at 1,465 square miles, with a population of 562,000 persons. I propose discussing these figures with Mr Grierson, and if necessary will, on return from my present tour, carefully visit portions of this tract. Until I have satisfied myself as to the full meaning of these figures, I will not ask Government to take them into consideration.

17. *General state of affected tracts.* - Test works have been opened, but as labourers are not flocking to them it may be inferred that the reaping of the harvest is giving sufficient employment. The attendance upon these works when the harvesting has been completed will afford evidence of the actual pressure upon the people.

There appears to be no cause for entertaining apprehensions regarding the condition of the Jehanabad and Aurungabad sub-divisions, and only comparatively small areas of the Sudder and Nowada sub-divisions have suffered from the failure of the crops

Mr Grierson writes: —" The late rainfall, though satisfactory in the north, centre, west and south-west of the district, was not sufficient for the *rabi* sowings elsewhere. Still, even where it was least copious, it has done great good to the *rabi* crops which were already sown, and taking the district as a whole has facilitated the sowing of more than half of the *rabi* land which had hitherto been lying untouched for want of moisture.

" In the Nowada sub-division it has enabled the cultivators to sow half the unsown area, and so in the Sudder sub-division except in pergunnah Sherghati and in the western portion of Barrachuti, where large tracts of *rabi* area, called *tcur* lands, remain unsown. No special cases of distress have been reported from any portion of the district The paddy crop is being harvested everywhere, which gives the labourers plenty of employment."

One or two good showers of rain during the month ending the 15th January next will everywhere improve the prospects of the *rabi* crop, and will, in the Collector's opinion, reduce the apprehensions of scarcity to a minimum.

18. *Public works open in or near affected tracts* —Test works have been opened by the District Board on the roads shown by numbers in the accompanying map tracing, but no returns have as yet been submitted. The attendance if there is any, upon these works is extremely small. The District Board has set aside a sum of Rs. 12,000 for expenditure on test works, and at Mr. Grierson's earnest request, and as the outlay will prove remunerative to the Government estate, I have, in anticipation of the sanction of Government, authorized him to incur expenditure up to a limit of Rs. 1,000 in making *gendas* or water reservoirs in Sarawan. As the District Board has provided funds for test works, I deem it desirable that Government, in its status of landlord of Sarawan, should also assist in the same direction The sum sanctioned will be expended on work carried out in accordance with the provisions of the Famine Code.

19. *Gratuitous relief.*—A sum of Rs. 200 has been allotted to the district under this head, but there has been no expenditure up to the present.

20. *Grain stocks.*—At present there is sufficient grain in the market for local supply. People of all classes are getting food from the paddy that is being harvested. Bengal rice is being imported by rail and distributed to the mofussil from Gya town.

21. *Organization of Circles.*—Mr. Grierson has submitted an elaborate scheme of circles which he will be asked to reconsider. No circle organization will be required in this district for the month ending the 15th January.

22. *Sub-divisional establishment.*—No immediate increase of establishment is called for. If necessary, I will depute one or two kanoongos to assist Mr. Grierson.

23. *District Engineer's establishment and tools.*—The Inspector of Local Works will shortly proceed to Gya and decide, in consultation with the Collector and District Engineer, what increase of establishment will be needed. The Collector has been instructed to make provision for spare *kodalis* and baskets, so that labour may be properly utilized.

CHUMPARUN.

24. *Area affected.*—The area affected by the total or partial failure of the paddy crop is shown in the map now forwarded. The part in which the failure of the crop has been most complete is marked in purple: that in which the failure has been less severe, or in which,

owing to irrigation and other causes, present prospects are somewhat better, is coloured indigo.

Roughly speaking, the affected tract is now reported to comprise about two-thirds of the jurisdiction of the Dhaka thanna, *i.e.*, about 200 square miles. According to the census of 1881, the population of the Dhaka thanna amounted to 253,992 persons. Allowing for a normal increase at the rate of 1·2 per cent. per year, it may be now put down at about 275,000 persons. The population therefore of the affected tract as shown in the map may be put down at 180,000.

25. *General state of the affected tract.*—No information has been furnished as to the estimated outturn of the *dhan* harvest in the Bettiah sub-division, and the remaining portion, *i.e.*, the unaffected tracts of the Sudder sub-division. The latest information, which, however, is not new and may have to be modified, as the result of later observation gave the estimated outturn of the *dhan* harvest at 9 annas in the Bettiah sub-division and at 6 annas in the Sudder sub-division. There is no reason to anticipate that the condition of the people anywhere outside an area equal to the Dhaka thanna jurisdiction need cause any apprehensions. Excellent reports have been received by the Opium Agent regarding the prospects of the poppy crop in the Bettiah sub-division, and in the Sudder sub-division, although the crop is reported to be backward, it is not reported to have failed.

26. Test works have been opened in the affected tract. A statement is appended which shows the attendance on these works. The number of persons on them has increased very rapidly, although the rate of wage given is below the rate usually given in the district. If the work test has been strictly applied—and I have deputed the Inspector of Local Works to ascertain from personal observation and to report upon this point—there can be no doubt that the attendance upon these works in Chumparun indicates that pressure is already being felt. The rates given are 7 *dibuas* or *lohiya* pice to full-grown men, 5 *dibuas* to women, and 1, 2, 3 and 4 *dibuas* to children, six and-a-half *dibuas* representing one anna.

The District Engineer has furnished me with a statement of the actual cost of the ration defined in the Famine Code, and from his figures it would appear that the rate of wage given on the test works—where up to the present only task work has been demanded—represents not more than 75 per cent. of the full wage. Instructions have been given to him to introduce without delay, wherever practicable, the system of payment-by-results, and I hope in my next fortnightly to be able to state what result this measure has in affecting the number of persons upon the works. Considering that *dhan* harvesting operations are not yet finished, the attendance on the works in Chumparun must, if the work test has been properly enforced, be held to indicate that pressure resulting from a marked failure of crops is felt over a well-defined tract.

27. *Gratuitous relief.*—No gratuitous relief has been given.

28. *Grain stocks.*—The grain supply in the local markets is so far sufficient, and prices are steady at fairly low rates. No complaints of insufficiency of supplies have been received. It is satisfactory to be able to report that Indian-corn is now being freely imported from Nepal.

29. *Organization of Circles.*—The Collector reports that there is no need to open relief circles before March. Should circumstances then render it desirable, two relief circles will be opened. I need not now give any fuller information under this head, as establishment to man these circles is not at present required.

30. *Sub-divisional establishment.*—No extra Deputy Collector will be required for the next three months Should the Collector represent the necessity of having one or two extra kanoongos, I will comply with his requisition and report my action for the sanction of Government.

31. *District Engineer's establishment and tools.*—The following extra establishment is required by the District Engineer—

		Rs.
1	Supervisor at	200
1	Overseer „	50
1	Surveyor „	25
1	Clerk „	30

Having regard to the limited establishment under Mr. Sealy, the Chumparun District Engineer, and to the large attendance upon the test works, &c.—attendance which may be expected to increase considerably during the next month—I request that the officers now applied for may be directed to join at once. It is impossible to start the payment-by-results system or to supervise and control effectually labour upon task work with a smaller increase of establishment than that now applied for. I trust therefore that Government will be pleased to pass very early orders upon this application. The Collector has already been instructed to make due provision of *kodalis* and baskets, so that labour may be properly utilised.

DURBHUNGA.

32. Later observation has enabled the Collector to modify his estimate of the affected areas in his district.

A map tracing is attached to this report, which is a copy of the map furnished by the District Engineer to the Secretary to Government in the Public Works Department. Mr. Beadon, after explaining that in his opinion the map furnished to Mr. Martin gives "an erroneously exaggerated account of the drought," has thus embodied his own estimate

of the actual condition. He writes—"I have shaded with pencil what I believe to be the area of total failure, and with check lines the part where the crop may not have been on the average above four annas. The former strip I should put at about 60 miles by 8, or 480 miles. The next portion would be a strip representing in length the widest stretch of the district with an average breadth of five or six miles."

The width of the district here is about 60 miles, so this area, *i.e.*, the area indicated by check lines, would be some 300 square miles.

33. *General state of the affected tract.*—Adverting to the condition of the district as a whole, the following information is of value :—

The *dhan* crop in the Tajpore sub-division is reported to be "a good 12-anna crop, The moisture for the *rabi* is fairly good. An ordinary amount of rain in January or February will produce a good *rabi*."

The Manager of the Nurhun estate in that sub-division writes—"All fear of the failure of crop has been dispelled by the rain of the night of the 28th and 29th November, and I sanguinely hope that we shall have bumper *rabi* crops in the villages of this estate. The outturn of the *aghani dhan* has been about 12½ annas."

In the Durbhunga sub-division the outturn of the rice harvest is better than was expected, and the light showers which fell on the 29th November are reported to have benefited the *rabi*.

Mr. Beadon reports that he has succeeded in obtaining an estimate, village by village, for 115 villages belonging to Rai Gunga Prasad, situated in all parts of the district, which g veson the whole an average outturn of 10½ annas for the dhan crop. The estimate which was prepared two months ago, Mr. Beadon, as the result of his personal observation, states might be raised to 12½ annas. Regarding the eastern portion of the Durbhunga sub-division, the District Superintendent writes:—"The crops all along the road from Rosera to Benepore are excellent."

Rain fell subsequent to the dates to which the above opinions refer, and the *rabi* has benefited thereby. The Collector writes:—"Driving through the town of Durbhunga I could see no traces of high prices telling upon the physique of the people." As the prices now reported to be prevailing there are rice 16 seers, *makai* 22 seers, *marua* 23 seers, it is quite certain that the people are not suffering in any way from pressure of high prices.

33. The following information relates to the Madhubani sub-division. The places named are marked on the map:—

In the Phulparas and Madhubani thanas the *dhan* is being harvested and the prospects of the *rabi* crops are favourable.

On the 12th December the following are the reported rates for coarse rice at the various police-stations:—

	Seers.
Benepatti	12
Madhuapore	11
Lankaha	14½
Madheypore	10
Phulparas	14½
Ladaria	18
Madhubani	13 to 14
Jhanjharpore	17

34. Mr. Beadon writes:—"Personal enquiry by myself and Mr. Grier, Sub-divisional Officer, has satisfied us that the outturn on the Alapore pergunnah will be 9 or 10 annas at least. In Jubdee there is an 8-anna crop, though here and on Alapore there are scattered villages which have suffered much. All the way from Naraya to Mohadeo Nath (nine miles) the crops are first-rate, but they are less good, though very fair, up to the frontier. For this reason I have greatly curtailed the area of total failure, as already explained."

35. It is much to be regretted that up to the 15th instant the Collector had not opened any test works as directed. He explains that he omitted to do so, as he misapprehended the purport of the orders communicated to him. He has now received explicit orders to open these works at once.

The attendance upon the District Board's works, where the normal rate of wages is paid, affords no indication whatever of the pressure upon the people. In the first place, these works are under contractors who engage only what may be termed skilled labour, and consequently women and other feeble persons can get little or no employment on them, however great their need. Skilled labourers, on the other hand, are able to earn much more than the full wage of the Famine Code.

I have asked Mr. Beadon to open some of the works sanctioned by his District Board, and for which funds have been allotted by them, as test works. By introducing the system of payment-by-results, these works can be executed without wasteful expenditure of the Board's funds.

36. The estimates framed of the actual condition of this district have varied so much from time to time that I consider the practical evidence which test works, properly supervised, would afford of the pressure upon the people, of more importance than estimates of crop outturns which, under the most favourable conditions, must be more or less conjectural. While attaching much value to estimates which have been so carefully considered by the Collector, I think it necessary to have the correctness of these estimates, affecting the condition of the people, checked by the evidence (which, if the supervision is efficient and rules attended

to, must be considered to be positive evidence) afforded by test works. I shall at once place myself in correspondence with Mr. Beadon, who, in his report just received, discusses the relative value of test works and works carried out under normal conditions, and issue to him explicit instructions for his guidance.

37. I am at present on tour in the Durbhunga district, and in my next narrative I hope to be able to express an opinion, the result of personal observation, as to the condition of the affected tracts. At present, I can only forward the Collector's estimate, which, as I have remarked, is not supported by any evidence obtained from attendance on test works. There can be no doubt that there has been a marked failure of the rice harvest in well-defined areas in this district. As to the effect this failure has had upon the condition of the people, I regret to say I am not at the present time in a position to give precise information.

38. *Gratuitous relief.*—No gratuitous relief at the expense of Government has been given.

39. *Grain stock* —The Collector, who has made enquiries from everybody whom he meets, is satisfied that there are stocks of grain in the country. He discusses figures of export of grain obtained from the railway authorities in support of his opinion. He is able to give a statement showing stocks of over three lakhs of maunds stored in the Madhubani sub-division, which stocks do not include any portion of the new crop. He writes:—"In the face of the above returns, I can have no doubt that the stocks throughout the sub-division (Madhubani) are ample for the support of the population. For the rest of the district the stocks of grain are wholly sufficient."

40. The Collector is of opinion that no circle organisation is required at present. Assuming his estimate of the failure of crops to be correct, it seems desirable that the area which he considers to be seriously affected should be divided into two or three circles, which might be placed in the charge of officers of the status of kanoongos, whose duties would be to make enquiries in cases of applications for loans under the Agriculturists' Loans Act, verify estimates as to the crop outturns, and generally collect all information of value should it be necessary hereafter to organise systematically measures of relief. Unless some such sub-division of areas is carried out, it is possible that the Sub-divisional Officer may not be kept fully informed as to the condition of the people. The Collector will be addressed regarding this. One kanoongo, one mohurir and one peon would be a sufficiently large establishment for each of these circles, and if their entertainment is deemed necessary, I will pass orders which will be subsequently represented for Government confirmation.

41. *Sub-divisional establishment.*—No increase is required at present. An experienced Joint-Magistrate is stationed at Madhubani, Mr. Greer. Mr. H. Lee is under orders to join at Durbhunga, and if vested with appellate powers under the Criminal Procedure Code, and powers under certain collectorate laws and rules, will be able to relieve Mr. Beadon of much routine work. The references necessary upon this point will be made to Government in the Judicial Department.

42. *District Engineer's establishment and tools.*—No application has been submitted for an increase of the District Engineer's establishment The Collector has not, it would appear from his report, apprehended that test works are to be under supervision of the District Engineer. For the works carried out at normal rates from the District Board's funds, the District Engineer appoints establishment as required. Mr. Stevens has applied for the following increase of establishment "to enable him to conduct relief works, and at the same time to carry on the current duties of his district":—

1 Assistant Engineer.
6 Overseers.

It is desirable that Mr. Stevens should have a sufficient establishment, and that all test works opened should be placed under him.

The Collector has expressed no opinion upon the scale of establishment applied for. I have no information which enables me to pronounce upon it, and I leave the matter therefore for the consideration of the Public Works Department. I shall be glad if very early orders are passed, and that any officers deputed to Mr. Stevens' assistance may be ordered to join without delay, so that he may be in a position to take over charge of test works.

The attention of the Collector will be called to the necessity of having a sufficient supply of tools in stock.

43. *Financial statement.*—The following statement shows the funds at the disposal of Collectors:—

DURBHUNGA.

	Rs.
For loans under the Land Improvement Act	10,000
Ditto Agriculturists' Loans Act	7,000
For gratuitous relief	300
Total ...	17,300

No account of expenditure has been received; but it is believed that a very small portion of this allotment has as yet been utilized. The Collector will not require any further allotment of funds for the present According to a revised statement lately received, the District Board has set aside Rs. 56,800 for expenditure on works to be carried out in the Sitamarhi sub-division.

A portion of this sum will, I trust, be devoted to expenditure upon test works.

MOZUFFERPORE.

The allotments made are—

	Rs.
For loans under the Agriculturists' Loans Act	5,000
Gratuitous relief	500
For civil agency works	4,000
	9,500
Given by District Board and to be employed on test works	6,000
Total ...	15,500

No account of expenditure has yet been received. Mr. Bolton having only lately taken over charge, is not able to frame an estimate of his probable requirements, which he promises to submit shortly. No present allotment of funds is therefore required.

GYA.

The funds at Collector's disposal are—

	Rs.
For loans under Agriculturists' Loans Act	3,000
For gratuitous relief	200
Sanctioned by Commissioner for expenditure on test works in Sarawan estate ...	1,000
	4,200
Allotted by District Board for expenditure on test works	12,000
	16,200

Details of expenditure not received. No further allotment of funds at present therefore seems required. The Collector has estimated for giving out a large sum on loan to agriculturists, but this will not possibly be necessary. Until I have discussed the matter with the Collector, I refrain from submitting his estimate.

CHUMPARUN.

Receipts.

	Rs.	A.	P.
For advances under Agriculturists' Loans Act	2,500	0	0
For gratuitous relief	200	0	0
	2,700	0	0
From Maharajah of Bettiah out of Rs. 5,000 promised	2,500	0	0
From District Board for employment on test work	10,875	0	0
Total ...	16,075	0	0

Expenditure.

	Rs.	A.	P.
Loans	Nil.		
Gratuitous relief	Nil.		
On test works	2,198	8	4
	759	5	9

Balance.

	Rs.	A.	P.
Government grant	2,500	0	0
	200	0	0
Private subscriptions	1,707	4	6
District Board's funds	8,676	7	3
Total Balance ...	13,083	12	9

The Collector estimates that his expenditure during the month ending the 15th January will be—

	Rs.
For advances under Agriculturists' Loans Act	2,500
For gratuitous relief	200
Payment of labour on test works, maximum average expected 20,000 at 13 souls per rupee	47,678

Of this sum the District Board supplies Rs. 8,676 and the Maharajah of Bettiah Rs. 1,707, leaving a balance of Rs. 37,295, for which the Collector requests that a grant from Government may be made.

Until the reports of the Inspector of Local Works are received, I am not in a position to say whether the attendance upon the test works cannot be diminished, or at any rate prevented from increasing over rapidly by a more rigid adherence to the provisions of the Famine Code. I will therefore only ask Government to sanction a grant of Rs. 10,000

to Chumparun for civil agency works. In my next report I shall be able, I hope, to make a forecast based upon fuller information of the probable expenditure during the coming month.

44. I have submitted in some detail information upon points of importance for all districts of the division. It will be seen that the areas which are stated to have suffered severely from the failure of crops in the several districts of the division are—

An area of from 300 to 400 square miles in the north of the Sitamarhi sub-division of the Mozufferpore district, with a population of about 250,000 persons, *plus* an unascertained area in the Shewhur thana to the west of the sub-division.

An aggregate area of about 310 square miles, the component areas being situated in the Sudder and Nawada sub-divisions of the Gya district, with a population of about 150,000.

An area of 480 square miles along the northern frontier (with a population of about 270,000) of the Modhubani sub-division of the Durbhunga district, and immediately below this an area of 300 square miles with a population of about 200,000. In this latter tract the failure of the crops has been much less marked.

Test works have been opened in Gya, but no labourers have flocked to them. This indicates that at present the pressure resulting from failure of crops is not severe, labourers being able to obtain more lucrative employment elsewhere. I learn from the Opium Agent that the prospects of the poppy crop all over the Gya district are magnificent; and as the outturn of opium in this district varies from 14,000 to 16,000 maunds in a good year, there is reason to expect that the Gya cultivators will receive nearly 30 lakhs of rupees for their opium this year. Taking this fact, with others, into consideration, I entertain hopes that the distress to be experienced and dealt with in Gya will be much less than indicated even by the revised estimate I have now submitted.

Test works have not been opened in Durbhunga and Mozufferpore, and so there is no trustworthy evidence to show what the pressure upon the people there is. There seems to be no reason to doubt that the crops have seriously failed over well-defined areas, and that assistance will have to be given to a large number of persons in these tracts either in the form of advances of money, or by providing them with employment. More than this cannot be now said.

In Chumparun the attendance upon the test works has increased very ominously. If the work test has been strictly enforced, as the wage given appears to be the wage prescribed by the Famine Code, we have for this district at least a trustworthy and positive indication that pressure is now being felt, and that we may expect to have on our hands a gradually increasing number of persons to whom assistance in some form or other must be given probably until the harvesting of the next *bhadoi* crop. Grain stocks everywhere are sufficient, and importations of Indian-corn are being made from Nepal, which shows that in the Terai there is a surplus of grain available for export. This is a fact of much importance, as the Nepal Terai immediately adjoins the affected tracts in Mozufferpore, Chumparun and Durbhunga.

The prices of grain are fairly steady, and except at one or two stations in the north of Madhubani are not excessively high, although above the normal.

No cases of distress have been reported, and it has not been found necessary to give gratuitous relief.

A scheme of works upon which the largest number of persons likely to flock for employment can be employed has been prepared for each district.

The strengthening of establishments where necessary has been considered.

Orders have issued for the immediate opening of test works, and the Inspector of Local Works has been deputed to inspect them, and to see that the ordinary contract system is not introduced, that the work test is rigidly applied, and that the prescribed rates of wage are given.

Finally, I may add that I am myself on tour, and will visit the Madhubani and Sitamarhi sub-divisions before returning to head-quarters.

List of Test Works (Gya district).

1. Sarawan pain.
2. Gendas in Sarawan villages.
3. Kuchha road No. 21 from Bodh Gya to Barachutti.
4. Ditto „ 27 from Bodh Gya to Gurua.
5. Ditto „ 26 from Gurua to Sherghotty.
6. Ditto „ 44 from Sherghotty to Imamganj.
7. Ditto „ 51 from Warisaliganj to Kehrah.
8. Ditto „ 50 from Kehrah to Husua.
9. Ditto „ 49 from Husua to Sherdilla.
10. Ditto „ 5 from Sherdilla to Rujouli.
11. Ditto „ 32 from Rujouli to Singar.
12. Ditto from Warisaliganj to Pakribarawan.
13. Ditto from Pakribarawan to Kanwakol.
14. Ditto from Kanwakol to Roh.
15. Ditto from Roh to Nawada.
16. Ditto „ 52 from Ruffeeganj to Olera.

G. A. GRIERSON,
Collector.

B.—*List of extra staff required immediately (Mozufferpore district).*

NAME.	Designation.	SALARY. Pay.	Allowance.	Total.	REMARKS.
		Rs.	Rs.	Rs.	
Baboo Kanti Chunder Chatterjee ...	Sub-Overseer, 1st grade	50	15	65	Transferred from the Public Works Department. Two have joined and two are expected to join shortly.
„ Gopal Chunder Mookerjee ...	Ditto, 2nd do.	85	15	50	
„ Mokhun Lal Mundle ...	Surveyor	75	...	75	
„ Kali Krishna Chukerbutty ...	Ditto	60	...	60	
	One Overseer ...	80	30	110	
	One Clerk ...	25	...	25	
				385	

This is exclusive of allowance for pension contribution to the two permanent Sub-Overseers deputed by the Public Works Department.

C. BOLTON,
Collector.

MOZUFFERPORE DISTRICT.

Statement of works capable of affording employment to over 10,000 persons for 120 days.

Serial number.	DESCRIPTION OF WORKS.	Locality.	Length in miles.	Rough estimated cost at the rate of Re. 1-8 per 160 cubic feet of earthwork.	Daily number of coolies at the rate of 60 cubic feet per coolie per diem.	Probable date when work can be commenced.	
				Rs.			
1	Improving Buthnaha road No. 37 .	From Sitamarhi to Sursund ...	16	9,610	1,017	24th November	1,000 men employed as reported on 2nd December.
2	„ Sursund „ 43 .	„ Pupri to Sursund ...	13	10,240	1,084	18th December	
3	„ Bela „ 45	„ Kuma to Bela	13	10,240	1,084	15th February	
4	„ Chorout „ 114 ...	„ Pupri to Chorout .	8	7,560	800	1st January	
5	„ Parhia „ 44 ...	„ Sursund to Parihar ..	6	4,725	500	1st do.	
6	„ Bhita „ 115 ...	„ Bhita to Chorout ..	6	3,780	400	15th do.	
7	„ Sonbursa „ 88 .	„ Sitamarhi to Sonbursa	20	18,000	2,000	15th February	
8	„ Dumraghat „ 40 ..	„ Belsund to Majorgunge	24	18,900	2,000	15th do.	
9	Constructing a road	„ Bongong to Kuma .	8	7,560	800	15th do.	
10	Improving Shewhur road, No. 36 ..	„ Sitamarhi to Shewhur	15	11,820	1,250	15th January	
11	Constructing a road	„ Barugnia to Bosuday ...	2	1,890	200	15th do.	
		Total ...		1,05,235	11,135		

C BOLTON,
Collector.

CHUMPARUN DISTRICT.

STATEMENT A.

Showing number of persons employed from 1st to 15th December 1888 on the works from the District Board Fund.

Dates.	NUMBER OF PERSONS. Man.	Woman.	Boy.	Girl.	Total.
1st December 1888	316	237	237	158	948
2nd Ditto ...	428	822	322	214	1,286
3rd Ditto	388	291	291	196	1,165
4th Ditto	424	318	318	211	1,271
5th Ditto	570	428	428	286	1,712
6th Ditto ...	589	442	442	295	1,768
7th Ditto	689	518	518	344	2,069
8th Ditto	724	542	542	362	2,170
9th Ditto	841	630	630	4 2	2,523
10th Ditto	1,094	821	821	547	3,283
11th Ditto	1,339	1,003	1,003	672	4,017
12th Ditto	1,593	1,195	1,195	797	4,780
13th Ditto	1,885	1,414	1,414	943	5,656
14th Ditto	2,003	1,503	1,503	1,001	6,010
15th Ditto	2,491	1,868	1,868	1,245	7,472
Total ...	15,374	11,532	11,532	7,692	46,130

STATEMENT B.

Showing number of persons employed from 1st to 15th December 1888 *on the works from the Subscription Fund of the Maharajah Bahadoor of Bettiah.*

Dates.	Number of persons.				
	Man.	Woman.	Boy.	Girl.	Total.
1st December 1888	66	50	17	6	139
2nd Ditto	42	78	37	45	202
3rd Ditto	39	38	34	43	154
4th Ditto	160	111	90	90	551
5th Ditto	187	188	104	89	568
6th Ditto	192	135	41	66	434
7th Ditto	155	66	53	47	321
8th Ditto	271	207	213	34	725
9th Ditto	270	195	207	185	857
10th Ditto	401	262	349	168	1,180
11th Ditto	427	337	292	266	1,322
12th Ditto	649	434	392	409	1,884
13th Ditto	807	551	545	540	2,443
14th Ditto	875	669	458	677	2,679
15th Ditto	1,054	675	844	778	3,351
Total ...	5,595	3,996	3,676	3,443	16,710

A. POWER,
Offg. Collector.

FAMINE RELIEF.

Test Works.

Number.	Description of works.	Locality.	Length of road, bund or canal.	Rough estimated cost.	Daily number of persons for 90 days to whom work will give employment.	Remarks.
			Miles.	Rs.		
1	Filling up gap on road and raising four miles of road.	Motihari, Katkenwa.	4	1,225	16,000, 177 for 90 days	To be paid by Board.
2	Filling up gap in Motihari to Dhacca road.	Lallbegia Ghât	¼	1,050	13,700; 152 ditto	Ditto.
3	Dhacca-Phoolwaria road earthwork ...	... ..	7	3,500	45,500; 505 ditto	Ditto.
4	Raksa to Telhara road earthwork ..	......	6	1,000	13,000, 144 ditto	Ditto.
5	Lalbhakia pine main channel slopes and clearing away spoil bund earthwork, Lalbhakia distributaries.	... .	5 40	2,500 2,500	32,500; 3611 ditto 32,500; 361 ditto	This should be paid by the zemindars or Government. Rs. 5,000 has been subscribed by the Maharajah for famine relief already.
6	Katkenwa-Telahara road earthwork, raising the road between Ghorasahan and Phoolwaria Ghât.		6	500	6,500; 72 ditto	To be paid by Board.
7	Dhacca to Padumkair road	......	5	500	6,500; 72 ditto	Ditto.
8	Phoolwaria-Padamkair road earthwork.	......	10	1,600	20,800; 231 ditto	Ditto.
9	Soeraha to Jamooah Ghât road earthwork.	......	12	500	6,500; 72 ditto	Ditto.
10	Dhacca to Ghorasahan	......	5	500	6,500; 72 ditto	Ditto.
11	" to Etwa Ghât	......	5	500	6,500; 72 ditto	Ditto.
				15,875	at 13 persons per rupee = 2,291 persons for 90 days.	

CHUMPARUN COLLECTORATE,
The 11th December 1888.

W. R. BRIGHT,
Offg. Collector.

CHUMPARUN DISTRICT.

Civil Agency Works.

List of tanks in Nonour and Sirouroa tuppahs, which require deepening and are much used for drinking and irrigation purposes.

		In or near circle.	Length.	Breadth.	Height.	Contents.
						C. Feet.
1	Hirapur tank north of Telhara ...	D	400	300	4	480,000
2	Mahawa ditto ditto ...	D	100	100	5	50,000
3	Kharwar ditto ditto ...	D	200	200	5	200,000
4	Basantpur ditto ditto ...	C	300	200	6	360,000
5	Bhurwa ditto ditto ...	C	400	300	3	360,000
6	Siripur ditto ditto ...	C	250	200	5	250,000
	Ditto ditto ditto ...	C	500	400	5	1,000,000
	Samonpur ditto ditto ...	C	300	300	5	450,000
9	Purnahia ditto ditto ...	C	300	200	6	360,000
10	Gowabari ditto ditto ...	D	300	250	6	450,000
11	Phoolwaria ditto ditto ...	D	360	460	4	662,400
12	Goorhanwa ditto ditto ...	D	300	150	6	270,000
13	Telharra ditto ditto ...	D	500	400	5	1,000,000
14	Barharwa ditto of Dhacca ...	A	500	300	5	750,000
15	Nankar south ditto ...	A	300	200	5	300,000
16	Do. ditto ditto ...	A	300	250	6	450,000
17	Bakhari north-west ditto ...	A	350	300	5	525,000
18	Bipra north ditto ...	A	200	150	4	120,000
19	Sitalpati west ditto ...	A	300	200	4	240,000
20	Dhacca	A	400	300	4	480,000
21	Roopwalia south of Dhacca ...	A	200	200	6	240,000
22	Bhoolasher ditto ...	A	250	200	7	350,000
23	Bhalwyah ditto ...	A	400	300	7	840,000
24	Ditto ditto ...	A	200	150	5	150,000
25	Barharwa, east ditto ...	A	400	300	7	840,000
26	Barharwa Lakna, south-east ditto ...	A	150	100	5	75,000
27	Narkatia, east ditto ...	A	150	150	7	157,500
28	Siswa, east of Padumkair ditto ...	E	300	300	7	630,000
29	Dalput ditto ditto ...	E	500	500	5	1,250,000
30	Saraya, south of ditto	E	200	150	5	150,000
31	Bakraya	B	200	150	7	210,000
32	Sinwaria, south-west of Dhacca ...	F	600	300	6	1,080,000
33	Misrowliah ditto	F	600	400	4	960,000
34	Mirpur	F	200	150	6	180,000
35	Barharwa, north of Dhacca	A	100	100	6	60,000
36	Patai, north	B	400	500	5	1,000,000
37	Do., south	B	400	400	5	800,000
38	Shikargunj, south of Dhacca	A	500	300	5	750,000
39	Katwaha ditto	A	300	300	5	450,000
40	Dhanayi ditto ...	F	500	500	5	1,250,000
41	Katrahia, north-west of Dhacca ...	C	500	300	5	750,000
42	Lowkhan ditto	C	500	500	5	1,250,000
43	Jatwalia between Dhacca and Telhara ...	D	3 0	800	5	300,000
44	East of Chumpapur	B	500	500	7	1,750,000
45	South ditto	B	200	200	5	200,000
46	West of Patahi	B	200	200	5	200,000
47	Do. Chumpapur	B	150	150	4	90,000
48	Do. Parsawani	B	200	200	6	225 000
49	South of Bolahia	F	200	300	6	360,000
50	Do Bakri	B	150	150	6	135,000
51	East of ditto	B	300	300	6	540,000
52	West of Bhilgharwa	B	200	200	7	280,000
53	North of ditto	B	300	200	6	360,000
54	Ditto ditto	B	150	150	5	75,000
55	East of Bokanee	B	300	300	7	630,000
56	West of ditto	B	300	200	7	420,000
57	Do. of Sheikhpurwa near Seeraha Jamooa road	B	200	200	6	240,000
58	North of Chaita village Bhartheechea pond	B	300	200	7	420,000
59	South of Saraitha Gamharea pond ...	E	200	200	7	280,000
60	South of Parsa	B	150	150	6	135,000
61	Do. of do.	B	100	100	6	60,000
62	Do. of Bahlolpur Bowbe pond ...	D	200	200	6	240,000
63	North of Panchpakri bazar	E	200	150	7	210,000
64	Do. of Naupharwa	E	200	150	7	210,000
65	West of Padumker factory, Nanpharwa ..	E	100	100	8	80,000
66	East of ditto ditto ...	E	300	300	6	540,000
67	Do. of Barnaha village	F	300	200	7	420,000
68	Do. of Shikargunge	A	200	200	6	240,000
69	Do of Pakri bazar	F	300	200	7	420,000

		In or near circle.	Length.	Breadth.	Height.	Contents.
						C. Feet.
70	South of Barra Sanker Padumkovi ...	B	1,200	300	6	2,160,000
71	Bara Sanker	B	300	300	6	540,000
72	West of Saraitha, Bahlolpur, Maorlipokhar	D	300	300	7	630,000
73	North of Chamahe village near Parai factory	F	300	200	7	420,000
74	Near Gungapupar, west of Dhacca ...	A	150	150	8	180,000
75	Harnahia pond, south of Padoomker ...	E	4,200	400	6	10,080,000
76	Jardaha Jhardowe ditto ...	E	6,400	600	6	23,040,000
	Total ...					68,239,900

Taking the work at Rs. 2 per 1,000 cubic feet, and calculating the number of persons at 13 for the rupee, these works were for 26,000 persons' employment for three months.

It is impossible to say which particular civil agency work is more necessary than another. The circles into which they have been grouped are so small that there would be no difficulty in people of any part of the tract attending any of these works.

It should also be noted that the calculation of 13 persons working per rupee assumes that they are all adults obtaining the full wage. This of course is not the case, and employment would therefore be afforded by these works for many more people than the above numbers.

CHUMPARUN COLLECTORATE, W. R. BRIGHT,

The 11th December 1888. *Officiating Collector.*

No. 4138—204, dated Calcutta, the 31st December 1888

From—P. NOLAN, Esq., Secretary to the Government of Bengal, Revenue Department (Famine),

To—The Commissioner of the Patna Division.

I AM directed to acknowledge the receipt of your letter No. 39G.F., dated the 20th instant, which contains, in the form of a report for the fortnight ending 15th December, a clear and comprehensive statement of the condition of the people in your division.

2. It is observed with satisfaction that Patna, Sarun and Shahabad have been removed from the list of districts as to which anxiety is felt, and that in Mozufferpore, Durbhunga, and Chumparun, the areas affected, with the degree of failure of crops in each, have been indicated on suitable maps. The general purport of the information given may be summarised as follows:—

Statement showing areas of crop failure in North Behar.

DISTRICT.	Area affected in square miles.	Population of area.	Estimate of outturn of winter crop on area of each.	REMARKS.
Chumparun	200	180,000	Outturn small.	
Durbhunga ..	400	200,000	Failure almost complete.	Population not stated; taken at 500 the square mile.
Ditto ...	300	150,000	Above 4 annas.	Ditto.
Mozuffer-pore. North Pupri ...	350	30,000	6 annas.	
Sursund ...		60,811	6 „	
Bela ..		47,090	Nil.	
North Sitamarhi		40,000	4 annas.	
Sonbursa ...		45,181	1 anna.	
Majorganj ...		33,065	2 annas.	
	1,250	786,147		

It does not appear that the stock of grain is in any place deficient. In regard to the district of Gya, in South Behar, you have not yet satisfied yourself of the extent of the failure, and the Lieutenant-Governor accepts the fact that the matter is still being discussed with the Collector as evidence of the pains taken to arrive at the truth.

3. The Lieutenant-Governor notices with approval that you are giving effect to the instructions conveyed in my letter No. 3857, dated 5th December 1888, as to the measures of relief to be adopted. The strict observance of the rules prescribed by the Famine Code for the control of test works is properly insisted on by you as essential to the attainment of the object with which such works are maintained. It seems that it is only in Chumparun that any attempt has hitherto been made to carry out the rules, but it is uncertain whether they have been effective even there, and the Inspector of Local Works has, it is observed, been deputed for the purpose of ascertaining this fact. Since the submission of the report the Lieutenant-Governor learns with satisfaction that District Boards have permitted their works to be executed on the Code system.

4. Separate orders have been issued sanctioning the grant of Rs. 10,000 proposed by you for civil agency works in Chumparun, and the extra establishments for which you apply. The Lieutenant-Governor is pleased to observe that the Maharajah of Durbhunga has given extensive relief on his estates.

No. 57G—F, dated Bankipore, the 5th January 1889.

From—JOHN BOXWELL, ESQ., Offg. Commissioner of the Patna Division,
To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit the report for the fortnight ending the 31st December 1888 on the prospects of the crops and the condition of the people in the districts of the Patna Division.

2. *Sarun, Shahabad, Patna.*—The prospects of the *rubbee* in these three districts are satisfactory. A fall of rain would much benefit the standing crop. The Collector of Shahabad, who has been out on tour, is of opinion that the average outturn of the *dhan* harvest in his district is not less than 10 annas.

Little fluctuation is reported in the selling prices of food-grains.

3. *Gya.*—The Collector, in his report for the fortnight ending the 31st December, fully confirms the accuracy of the information already submitted to Government that in the Gya district the affected area is 310 square miles, with a population of about 147,000. With reference to the area of 1,465 square miles with a population of 562,000 persons, in which the Collector reported that "there is no immediate apprehension of distress, but where relief measures may be necessary later on," I am now able to report that over this area the outturn of the *dhan* harvest is reported to be 7½ annas, or about half an average outturn. This information appears to me to fully justify the opinion I had formed that in this tract the pressure upon the people cannot be so great as to necessitate Government intervention. Mr. Grierson will be at Bankipore when the Lieutenant-Governor arrives on the 12th instant, and by that time he will have been able to collect fuller information regarding this debateable tract.

The Collector considers that only three-fourths of the area ordinarily under *rubbee* has been sown down this year. He gives no information as to the prospects of the standing crop, regarding which all that can be said is that so far it is healthy and would benefit from a fall of rain.

Public works open in or near the affected tracts.

4. The test works opened by the District Board in the vicinity of affected tracts not having attracted any labourers have been closed, but will be re-opened after the *dhan* crop has been harvested should this be necessary. On the test works opened at Government expense in mehal Sarawan, where payments are made by results to able-bodied labourers and by task work to females and children, the attendance is 45 persons only. These facts indicate that at present the harvesting of the winter rice crop has supplied all the employment required, and also, it may be said, that the pressure upon the people is at present not marked.

Gratuitous relief.

5. None has been given.

Grain-stocks, and prices of food-grains.

6. The supplies of grain in all the markets are sufficient. Coarse rice is selling at from 17 to 18 seers (Government weight) in the interior, and at 16 seers in the head-quarter towns.

Establishment.

7. No increase of establishment required.

Area affected.

8. *Mozufferpore.*—Mr. Bolton, who spent the 17th December and the six following days in inspecting the whole of the affected tract, is able to confirm the information already submitted to Government that the area of bad failure comprises from 300 to 400 square miles, as defined in the map forwarded to Government with the last report from this office. The Collector states that the average outturn of the rice crop for the whole of this area has not exceeded two annas, while in the worst part on the east, including Bela and Parihar, the failure has been complete, less than one anna being harvested. He writes: "In numbers of villages practically no crop has been gathered, and even the small outturn of two annas would not have been reached had not much of the crops of particular villages been saved by irrigation from streams and tanks."

While the Collector was on tour in the area already reported as affected, Mr. Macpherson made a careful inspection of the Sheohur thana, which area was referred to in the last divisional report as the "unascertained area." Mr Macpherson found that, while in some villages the crop had completely failed, in others there was a very fair outturn. The average outturn for the whole Sheohur thana is estimated at 4 annas.

The Collector does not at present wish to include this thana in the affected area, as it has a large area under *rubbee*; and if the outturn of this harvest prove favourable, it will not, in his opinion, need much in the shape of relief. A test work has been opened here, and the tract will be carefully watched. For the present, therefore, I will not ask Government to include the Sheohur thana as an affected area.

I crossed from the Durbhunga district to Mozufferpore close to the Nepal frontier, walking a short cut through Nepal territory. There was hardly any *rubbee*, but curiously most of the *rahar* that I saw was very good. In some villages, where either my tent was pitched or I changed horses, there were crowds of people ready to clamour for help. There were, however, very strong sign that the clamour was prompted by recollection of the extensive relief operations of 1874 At Sursand I met Mr. Bolton, and with him Mr. Disney, the District Engineer. The condition of this part of Sitamarhi is exactly like that of the contiguous parts of Madhubani, and the improvement going south to Pupri is as strongly marked as the opposite change going north from Kamtaul.

General state of the affected tract.

9. The area under *rubbee* on the affected tract is small; and although an attempt has been made to sow a larger area than usual, much cannot be expected from the *rubbee* harvest. Owing to the deficiency of moisture in the soil, and the absence of rain, the crops have not germinated well, and are not making satisfactory progress. The Collector thinks that upon a fall of rain *cheena* and *mung* might be sown. As these crops are largely consumed by the labouring classes, and could be harvested within three months, the Collector will be directed to do whatever may be possible to ensure that there is a sufficient supply of seed available should rain fall.

Grain-stock, and prices of food-grains.

10. The supply of grain in all the local markets is reported to be ample. Exportation of rice from Nepal has been prohibited by the Durbar, but *makai* is being exported. The Collector, in the course of his tour, noticed that rice was being imported into the affected area from the south of the district. I reproduce a statement, from which it will be seen that there has been a rise in prices during the past fortnight—

Price-current, Mozufferpore District.

MARKET.	COMMON RICE.				MARUA.			MAKAI.		
	Fortnight ending 31st December.	Previous fortnight.		Corresponding fortnight of 1887.	Fortnight ending 31st December.	Previous fortnight.	Corresponding fortnight of 1887.	Fortnight ending 31st December	Previous fortnight.	Corresponding fortnight of 1887.
	S.	S.	CH.	S.	S.	S.	S.	S.	S.	S.
Sursand	12	12	0	30	15	17	...	15	18	..
Bela	12½	13½	0	25	16½	22½	40	17½	22½	45
Majorgunge ..	13¾	14	0	27½	....	22½	45	22½	22½	40
Sonbursa	11	13	0	......	19	20	42½	18	23	40

Pucca seers are given.

Prices in the principal markets of the affected area are double or more than double those prevailing at a corresponding period in 1887. These high prices must tell severely on the labouring classes and petty cultivators. Fortunately there exists at present a plentiful supply of the sweet potato which is selling at one pice for five-eighths of a Government seer.

Public works opened.

11. Test works have been opened on four roads, *viz.* Bela road, Pupri Sursand road, Sonbursa road, and Batnaha-Sursand road. The attendance of labourers on these roads was 725 during the week ending the 15th December; 927 during the week ending the 29th December. The expenditure per week on these roads is being met by the District Board. Payment by results is made, and the Collector has satisfied himself that labourers cannot earn more than the full wage. The contract system has been absolutely prohibited. Civil agency works have been started at Kunhowli, Dastea, and Charout, where tanks are being excavated. The two former works are being supervised by the Assistant Superintendent of Police. Payment by result is made, and instructions have issued to give out the work as far as possible by families. Full attendance figures have not been supplied, but on the 30th December there were 1,090 persons working at the Dastea tank and 95 at the Kunhowli tank.

The following works are being carried out by private agency:—A large tank at Bela, four tanks in the neighbourhood of Sonbursa. The attendance on all these works is small and not increasing.

Work was started at Parihur on a tank by the Assistant Manager of the Durbhanga Raj; but as the supervision was inefficient, the influx of people became so great that the Assistant Manager stopped work until his staff was strengthened.

No works are at present being carried out by means of tuccavi loans, but as the Collector has received applications for such loans, a reference for funds under this head may be expected.

Gratuitous relief.

12. No gratuitous relief from Government funds has been given. On the 8th December 1,004 persons received gratuitous relief from the Maharajah of Durbhunga's Parihur office; this number had decreased to 415 on the 22nd December. The Assistant Manager explains the decrease by stating that he gave gratuitous relief until he was in a position to provide employment. The majority of the persons formerly receiving this gratuitous relief will now have to work on the Bela road. The result is decidedly satisfactory, as the distribution of gratuitous relief to able-bodied persons has a demoralising effect.

Establishment.

13. The Collector has not submitted any proposals for increase of establishment. An Assistant Engineer has already reported himself, and the overseers, four in number, have, I understand, also joined. Specific information regarding establishment will be given in my next report.

Circle organisation.

14. No alteration in the scheme of circle organization already reported has been made.

15. *Durbhunga.*—There is no alteration in the area and position of the affected area in this district.

General state of affected tracts.

16. The Collector writes: "The general appearance of the villagers in the north and north-eastern part of the district indicates that the inhabitants are still well above the condition of actual want: herds of bullocks and buffaloes in numbers beyond the requirements of cultivation denote wealth available for the purchase of food supplies, and are a temporary safeguard against any danger of famine. Any pressure that may come will be first felt in pergunnah Bhola, and work will be opened without delay in that tract. The information at hand shows the crop prospects somewhat more favourable during the fortnight under report.

"The *rubbi* crop, it is true, has suffered considerably owing to the absence of rain, but throughout the affected tracts the other winter crops promise a fair harvest. The supply of water along the frontier is not abundant; tanks are needed in many villages for drinking and irrigation purposes."

Mr. Beadon is making enquiries regarding these proposed tanks. I have paid two visits to Durbhunga. In the beginning of December I saw the country about Madhubani and Pandaul, and discussed the state of the crops with several good observers. The crops were good. It was well worth while to see this good rice so close to the boundary of the affected area.

Again on the 14th I went to Durbhunga and rode and drove by Kamtoul, Benipatti, Harlakhi, Umgaun, and Madhuapur, and into the Mozufferpore district. My observation of the look of the country, the number and condition of the threshing-floors, the quality of the corn being threshed, confirmed the previous reports received from Mr. Beadon. From Durbhunga north to Kamtoul there was nothing to complain of. Between Kamtoul and Sauliman Ghât, a distance of about five miles north, there were still no strongly marked signs that anything was wrong. From the ghât north I found a quite different state of things; khalihans much less frequent and less well supplied; large maidans with little or no stubble, and hardly any *rubbi*. The same general features were seen throughout my journey till I reached Narayanpore, about four miles north of Pupri in Sitamarhi. These two places, Sauliman Ghât and Narayanpore, are on or close to the boundaries of affected tracts given by the district officers. As far, then, as observation of the state of affairs, the reports hitherto given may be considered very accurate and improving in accuracy.

I found that test works had not been set going; but there has been so much correspondence on this subject lately, and the wishes of Government have been set forth so clearly, that I will not refer to it again. The usual heavy southward traffic had ceased almost completely, and in its place there was a very much smaller northward transport of grain. Sweet potatoes formed part of the remnant of southward traffic. Cattle showed good condition, but were being driven home unsold from fairs in considerable numbers. Tanks were dry to a very great extent. In the north-west corner of Madhubani poppy was thicker than I have seen it anywhere even in Gya, but there were loud complaints that there was no water. Kutcha wells fell in almost as soon as made from the unfavourable nature of the earth.

Public works open.

17. Mr. Beadon now reports that two test works have been opened, one at Lowkahi and one four miles west of Lowdania. The names given will be found in the map submitted in my last report. Lowkahi and Lowdania are frontier police outposts. No applicants for work had appeared, although the wage given is, in the Collector's opinion, sufficiently high to afford an able-bodied labourer a full ration at present prices. In this opinion I am not prepared to concur, and as it seems to me that the rate of remuneration fixed is, with reference to possible outturn of work and present selling prices, too low to represent the full ration, I am instructing the Inspector of Local Works to visit these test works and ascertain by actual trial whether the rate given is or is not sufficient.

Under existing conditions, no significance can be attached to the attendance on the Durbhunga test works, as it appears that during the fortnight ending the 31st December work was being carried on or near the affected tracts simultaneously by (1) District Boards under the contract system; (2) by the Sub-divisional Local Board; (3) by private agency; (4) persons who had taken advances under the Land Improvement Act.

Mr. Beadon has stated that the contract system will be absolutely abandoned, and before long I hope that much of the work now being carried on will be executed under the conditions prescribed in the Famine Code.

Much work is being executed through private agency, principally by the Maharajah of Durbhunga and Rajah Rameswar Singh.

Gratuitous relief.

18. None has been given.

Grain stocks, and selling prices of food-grains.

19. The Collector has made careful enquiries regarding grain stocks, and has ascertained that grain is being imported into the affected tracts from Madharpore, Bahera, and Rusera on the south-east. The stretch of land lying immediately to the north of Durbhunga, which ordinarily supplies the Durbhunga market, has fine crops this year, and is exporting direct to the north. The Durbhunga merchants have expressed their willingness to export to any part of the district where prices are high, if Government builds sheds to serve them as temporary shops; while two of them, Mohesh Chandra and Ram Lal Sahu, have expressed their intention of opening

golahs in the affected tracts very soon. All the information received gives reassuring indications that private trade is active and sufficient for all requirements. The price-current of the 31st December showed the price of common rice at Durbhunga as 14 $\frac{1}{16}$ seers, Madhubani 14 seers, Tajpore 14 $\frac{3}{16}$ seers During the fortnight there has been a slight tightening of prices due probably to exceptional causes which will not continue to exist

Circle organisation.

20. In accordance with instructions conveyed to him, the Collector has now established four circles. The existing staff of the sub-division has been utilized on the duties connected with these circles, which have been so constituted as to be capable of being sub divided into smaller circles directly any officer reports the necessity for more detailed work in his neighbourhood. The instructions issued to the circle officers are sufficient, and we may now feel satisfied that early and reliable information as to the condition of the people will now reach the Collector from all parts of the affected area. For purposes of reference, I may note that the circles have been constituted according to police jurisdiction. The following names will be found on the map already submitted:—

Circle (1).—Beniputty thana, Madhwapur outpost.
Circle (2).—Harlaki outpost.
Deodha outpost.
Circle (3).—Khajowli thana, Ladounia outpost.
Circle (4).—Lowkaha outpost.
Lowkahi outpost.

Establishment.

21. No application for increase of establishment has been received. When I was in Calcutta, I arranged with the Secretary to Government in the Public Works Department regarding an Assistant Engineer and some upper subordinates for this district, but as yet I have not learnt whether the officers selected have joined. When the District Engineer's establishment has been strengthened, I hope that a large number of the works in progress will be carried out under the Famine Code tests.

Area affected.

22. *Chumparun.*—No alteration is reported in the area affected

General state of the affected area.

23. The Collector states that distress is being felt by poorer cultivators, numbers of whom are resorting to the test works, and applications for loans are being made by them in hundreds. The prospects of the standing crops continue unchanged: where irrigated, the *rubbee* and poppy promise well. Elsewhere these crops are suffering slightly from the continued drought

The attendance on the test works was on the 31st December 11,316 persons, viz., 4,793 men, 2,431 women and 4,092 children The Collector in a demi official letter, dated 2nd January 1889, reports that the payment by results system has been practically introduced on all the test works. When the District Engineer receives the increase of establishment arranged for during my visit to Calcutta, more perfect arrangements for securing a full day's work for each person will be made.

Grain stocks, and selling prices of food-grains.

24. Mr. Power writes: "Hitherto there has been no deficiency of grain supyly, but apparently the stocks from which the local markets are supplied are being depleted, for prices have risen. Coarse rice is now selling at 12$\frac{3}{16}$ to 14$\frac{9}{16}$, and *makai* (Indian-corn) at 18¼ to 19$\frac{7}{16}$ Government seers per rupee.

25. The important points I have to bring to notice in this report are—

1st.—That the skeleton circle organization has been carried out in the Durbhunga district

2nd.—That in the Mozufferpore and Chumparum districts, the payment by results system has been introduced on all works.

3rd.—That two test works have for the first time been opened in the Durbhunga district under conditions however which do not seem to me to be suitable. I am in correspondence with the Collector on the subject, and hope that his District Board will furnish a number of these works to be carried out under the Code system. I have deputed the Inspector of Local Works to Madhubani with instructions to visit works in progress and to report to me upon the rates paid and the amount of work which is exacted, and generally upon all matters which have a bearing upon the usefulness of these works as affording indication of the pressure on the people and as supplying employment to persons in need of it.

26. I give no financial statement in this report, as, owing to the break caused by the Christmas holidays, the district reports are not sufficiently full to enable me to give precise information. All districts have sufficient funds for immediate requirements

27. No rain has fallen throughout the division during the fortnight under report. There has been no marked tightening of prices, except in the Madhubani sub-division, and these may be attributed to special and temporary causes A tendency to a rise in prices is noticeable, however, in Chumparun and Durbhunga.

No. 84GF, dated Bankipore, the 24th January 1889.

From—JOHN BOXWELL, ESQ., Offg. Commissioner of the Patna Division,

To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit my report upon the prospects of the crops and condition of the people in the districts of the Patna Division for the fortnight ending the 15th January.

This report has been written very hurriedly on my return to head-quarters, and I must apologise for the clerical mistakes that may be found in it.

SHAHABAD—PATNA—SARUN.

2. The Collector of Shahabad writes :—

"The prospects of the standing crops continue on the whole fair, though rain is badly wanted to prevent them from suffering. There was slight rain on the 13th, but the fall was not general and not enough to do any good to the crops. The prices of food-grains are stationary. Coarse rice is selling at 15 seers, barley at 18 seers and *makai* at 19 seers the rupee."

3. The Collector of Sarun writes :—

"The *rubbi* and poppy crops have much benefited by the showers which fell on the 13th instant, and their prospects are excellent.

"The prices of food-grains obtaining in the market on the 15th instant were—

"Common rice (old)	...	...	12 seers 13 chittacks.
Ditto (new)	...	...	14½ to 15 seers.
"Makai	...	...	19½ "
"Rahar	...	...	21 "
"Marua	...	...	20 "
"Barley	...	...	21 "

The stocks in hand are reported to be as full as ever ; there is no reason for apprehension.

4. The Collector of Patna writes :—

"The prospects of the standing crops are favourable. The Sub-divisional Officer, Barh, reports that there was a good deal of hail in his sub-division, which may possibly have injured the young poppy plants, but the extent of damage has not been ascertained."

The fluctuations apparent in the selling prices of food-grains are unimportant.

Coarse rice is selling at 15½ seers the rupee, *makai* at 20½, barley at 20½ at head-quarters : slightly lesser quantities are given for Barh.

CHUMPARUN.

5. *Area affected.*—There is no change in the affected area.

6. *General state of the affected tract.*—The Collector writes :—

"Distress is spreading among the poorer classes of the cultivators, but not yet in an acute form ; numbers of them resort to the relief works, but complain that not being accustomed to manual labour of the kind required, they find it difficult to earn a full ration at piece-work. Arrangements have been made whereby, with ordinary diligence, they can earn fully 75 per cent. of the full wage as prescribed in section 131 of the Famine Code. The effect of the change from payment of daily wages to piece-work has been to reduce the numbers of persons, especially of women and children, and to increase the numbers of applications for loans and advances. Prospects of crops continue unchanged ; there were a few drops of rain on the 13th, and the weather has been cloudy off and on since. Poppy is holding on satisfactorily ; numerous kutcha wells are being excavated to irrigate the crop. The water-channels from the dams on the three rivers north of the affected tract have done immense good to the *rubbi.* Elsewhere this crop is beginning to look somewhat yellow."

7. *Public works open.*—I annex three statements A, C, and D, which show the attendance on works carried out at the expense of the District Board, of Government, and of private individuals. All these works are under the District Engineer. It will be seen that, while the system of payment by results is being introduced as largely as possible, due provision has been made for the requirements of the more weakly and less efficient labourers by supplying task work. The Collector's action in this respect has my fullest approval.

8. *Grain-stocks and prices of food-grains.*—The supply of grain is reported to be sufficient. Mr. Power writes :—

"There is a tendency towards equalization of prices all over the district. Coarse rice is still procurable at a fraction above 12 seers per rupee in the affected area and cheaper food-grains (*makai,* &c.) in proportion."

9. *Gratuitous relief.*—No gratuitous relief has as yet been given. The Collector reports that a commencement has been made in the preparation of Register A under section 11 of the Famine Code in an unostentatious manner.

10. *Establishment and circle organization.*—The Collector requires two additional canoongoes, and arrangements have been made to send them to him at once.

No alteration in the circle organization is reported.

GYA.

11. *Area affected.*—There is no change in the area affected.

12. *General state of the affected tract.*—The prospects of the *rubbi* continue favourable. Mr. Grierson writes:—

"There has been no rainfall during the fortnight. At Fatehpore, where I have been in camp, there has been some rain for a few miles all round, which has done great good. If there be a good shower of rain followed soon by clear weather, the prospects of the *rubbi* will be further improved"

13. *Public works open.*—The ordinary annual repairs of village roads are in progress under the Local Boards.

No report of attendance figures on the test works in the affected tract of Nawada, which have been lately re-opened, has been received.

On the test works opened in mehal Sarawan for the construction of gendabandi, the average daily attendance of labourers is 180. Mr. Grierson writes:—

"I would also draw your attention to my proposal that the earthwork on the new railway to Benares, when it passes through the south of the district, should be commenced not as a relief work, but as a good thing likely to save the necessity of relief works at a later stage when much pinching will be felt by the poorer classes."

I commend Mr. Grierson's proposal to the consideration of Government.

14. *Grain-stocks and prices of food-grains.*—The supply of grain is reported to be sufficient everywhere in the district. Common rice is selling at 15½ seers the rupee in Gya, 16 to 17 seers at sub-divisional head-quarters, and at 21 seers at Govindpore, an outpost of the Nawada sub-division.

15. *Gratuitous relief.*—No gratuitous relief has been given.

16. *Establishment and circle organization.*—Mr. Grierson needs the assistance of another Deputy Magistrate, but this will be dealt with in a separate communication.

No change in circle organization.

MOZUFFERPORE.

17. *Area affected.*—The area affected remains unchanged. The Collector writes:—

"I am not yet satisfied that it should be extended so as to embrace the southern portion of the Shewhur thana. I have already explained that the *rubbi* cultivation in that part is fairly large, and a good *rubbi* outturn may considerably improve the state of things. One of the recently-appointed canoongoes has been deputed to Shewhur. His reports give a somewhat gloomy account of the tract, but the Sub-divisional Officer is not disposed to attach much importance to them, and I am myself of opinion that they are much exaggerated. Mr. Maude will shortly visit Shewhur, and I shall also go there after a brief stay at Mozufferpore. For the present, work is provided near Shewhur, and this will suffice for the labouring classes, who are the only persons in need of assistance."

18. *General state of the affected tract.*—There has been no improvement in the state of the crops in the affected tract. The Collector writes:—

"The absence of rain has done much harm. Signs of rain have been frequent during the past week, but beyond a few drops on the 13th and the early morning of the 19th there has been no fall. In Mozufferpore and further south fairly good rain has fallen, and the *rubbi* must have much benefited. There is now every reason to hope that a very good *rubbi* harvest will be gathered in these parts of the district, and that will to some extent benefit the distressed tract by causing a fall in the prices of *rubbi* food-grains, although infinitely greater good would have been done by a fall of rain in the tract itself, sufficient to enable cultivators to sow *cheena* and *mung*. It has already been reported that *rubbi* cultivation is very slight in the affected tract, *rahar* being the principal crop now seen. The crops generally appear stunted and unhealthy (except *rahar*), and unless rain falls shortly the outturn is likely to be very small. The people are using such water as there is in the hill streams for irrigation of the *rubbi* within a few hundred yards of the banks."

The people are reported to be in fairly good health, and the cattle to be in good condition everywhere.

19. *Grain-stocks and prices of food-grains.*—It is satisfactory to note that there has been a slight fall in prices during the fortnight. Exact figures cannot be given, as the Collector had not the returns for the several markets by him when writing; but he is able to report that there is an improvement of about one seer in the selling price of rice and of about two seers in *marua* and *makai*. The Collector reports that the supply of grain is sufficient in all the markets, and that *makai* continues to be imported from Nepal and rice from the south, although the quantity is not large in either case. It would appear from the fall in prices that a large supply of these grains came into the market during the fortnight.

20. *Public works opened.*—The average daily number of persons employed on road work carried out at the expense of the District Board is shown in the following statement:—

	Week ending 29th December.	Week ending 12th January.
Bela road ...	291	218
Pupri-Sursund ...	124	1,356
Sonbursa ...	113	543
Batnaha Sursund ...	399	1,089
Parihar-Sursund ...	......	239
Shewhur ...	......	655
Total ...	927	4,100

The above figures show a large increase for the whole period. The Collector reports that there has been a further increase on the 12th and on the 15th instant: he estimates the number of persons on the District Board's works in the affected tract at 5,000. Details of the number of men, women, and children on each road will be given in the next report.

The civil agency works consist of three tanks, Konhowli, Dostia, and Hanmannager. The total number of persons working on these tanks was 1,902, of whom 899 were men, 718 women, and 285 children. The total numbers of persons on works in the affected tract of the Mozufferpore district on the 15th instant may therefore be put down roughly at 7,000. The Collector reports that women and children resort more freely to tank works than to the roads. On the former the work is allotted to families. Mr. Bolton writes that this arrangement will be tried on the roads.

It appears that upon one tank the rate at first given was too high; when this rate was reduced, the number decreased, and labourers were able to stay away because the Sursund zemindar started some work in the neighbourhood, paying daily wages without regard to the quantity of work done. Piece-work has, however, since been introduced on these private works, and the people have again commenced to flock to the civil agency tank.

Mr. Bolton proposes extending tank work throughout the affected area. He writes:—

"I have refrained from undertaking it more extensively hitherto because the entire cost is borne by Provincial funds, while I am of opinion that the zemindars who derive the chief gain from works of this class should contribute a portion of the cost. I propose in future to offer to re-excavate tanks provided the zemindars bear half the cost."

The Collector is prepared to make advances to them for the purpose under the Land Improvement Act, and has intimated his intentions to the zemindars of the affected tract.

The Maharajah of Durbhunga and other zeminders are excavating tanks at their own cost. Figures of the attendance on these private agency works are not available.

21. *Gratuitous relief.*—The only gratuitous relief given is that needed in urgent cases. Mr. Bolton writes:—

"There is still no necessity for organizing charitable relief, but I shall shortly select the villages which will serve as the centres for such relief, if it must be undertaken hereafter. At Parihar, the Maharajah of Durbhunga is reported to be still giving gratuitous relief to several hundred people, a number of whom are, the Collector considers, not proper objects of charitable relief. The Raj Manager has given orders for the exclusion of able-bodied persons; so a diminution in the number of recipients may be expected. At Sursund a zemindar and near there three mohunts are also giving charitable relief on a limited scale."

22. *Establishment.*—The Collector considers that the time has now come for some increase of establishment. Details will be given when the proposition statement is received. The Collector is having a list prepared of old tanks which could be usefully re-excavated, and will also select the most suitable centres for the distribution of gratuitous relief, should it be necessary later on to afford relief in this form. His arrangements have been carefully considered, and the action he is taking, while it will not in any way excite public feeling or raise false hopes, is required to ensure that the best possible preparation shall be made against a possible time of greater pressure later on in the season.

23. *Circle organization.*—No alteration in the scheme of circle organization is reported.

24. *Grain-stocks and prices of food-grains.*—The Collector writes—

"Stocks are not showing signs of depletion, except in so far as a very slow and slight rise in price is concerned, but this only in certain places. The Deputy Collector charged with the duty reports that several mahajans have sent orders for rice from Burdwan, Ranigunge and other districts in Bengal. The Sub-divisional Officer reports that there is a tendency to rise in prices, but that nowhere has this rise been marked. Mr. Greer writes from the south-east of Madhubani and the Durbhunga Sudder sub-division, large quantities of grain are being carried across the frontier to Nepal where there is also scarcity. The export of food-grains from railway this year shows a marked falling off as compared with the corresponding period of previous years. On the other hand, there is a marked decrease in the amount of imports from Nepal. So far as available, information can guide us to an opinion, there seems to be little doubt that up to the present private trade is sufficiently active and extensive to maintain the stocks of grain in the local markets up to the actual requirements.

25. *Gratuitous relief*—Has been given to some twelve persons only. The Collector fully realizes the necessity of not giving relief in this form until the circumstances of the persons who, on account of infirmity or disease, are fit recipients, are such as to render the administration of relief in this form absolutely necessary.

DURBHUNGA.

26. *Area affected. General state of the affected area.*—The area affected remains unchanged. The Collector has had detailed estimates, village by village, for the Madhubani sub-division, made of the outturn of the *dhan* harvest, and of the probable outturn of the *rubbi* harvests. These statements I reproduce on a separate sheet.

It will be seen that the whole jurisdiction of the Madhubani Sudder thana has harvested considerably above an 8-anna crop: regarding this area therefore there need be no apprehension. In the remaining three thanas of Benipatti, Khajouli, and Phulparas, representing an aggregate of 598 villages,* it will be seen that on 37·75 per cent. of these villages, or on about 240 villages, the failure of the *dhan* has been almost complete, 2 annas or less having been harvested, while in 18·44 per cent., or on about 110 villages more, there was a 4-anna crop only of *dhan* harvested. The significance of these figures is obvious. The Lieutenant-Governor, who has lately visited a portion of these Durbhunga affected tracts, has satisfied himself that the condition of the people there is better than in the affected tracts of the neighbouring districts, Mozufferpore and Chumparan, and there are many indications to support this view. Whether this relative superiority will be maintained, it is not so easy to determine. My own opinion is that, if failure of the *dhan* harvest is correctly shown in this figured statement, and I have every reason to believe that the information was carefully collected and examined, the condition of the people in the 240 villages of the Madhubani sub-division, in which the *dhan* crop almost completely failed, must sooner or later conform to the condition of the people in the affected tracts of the neighbouring districts. A considerable proportion of the agricultural population (and in agricultural I include all the non-urban population) possess little or no reserve, and if their *dhan* fields this year yielded them an outturn of two annas or less, such stocks as they possess will very soon be exhausted, and assistance in some form or other will have to be given to them. As already stated, there are no indications that at present the pressure upon the people of these villages is severe, but that it will become so before long appears incontestable if the Collector's estimate is correct. The local officers will continue to make fullest enquiries and to watch the attendance figures upon the works that have been opened, and we may hope therefore to receive timely warning of the necessity, should such necessity arise, of affording employment on a more extensive scale to the population and of giving special relief to the infirm and aged in exceptional cases. The Famine Commissioners have estimated that in the worst famine not more than 15 per cent. of the population seek relief. Taking the population of the 240 villages in which there has been an almost complete failure of the rice crop at 275,000 persons (and it is not less) the largest possible number that would come on to our works in the affected tracts of the Durbhunga district would at no time exceed 40,000 persons; and I have no doubt whatever that the local officers would be able to deal with this number, as the District Engineer's staff has been strengthened, and the present skeleton circle organization is capable of considerable expansion.

* With a population according to the last census of 695·733.

We must also not lose sight of the extra strain that may be put upon our organization by the influx in large numbers of residents of the Nepal Terai. The Sub-divisional Officer, Madhubani, reports that the scarcity in the Terai resembles the condition of our worst tracts, and if his information is correct we may expect Nepalese ryots to flock to our works in large numbers later on, and if their condition is one of severe distress, it will be our duty to allow them to secure employment on our works, provided that these works are being carried out in strict accordance with the rules laid down in the Famine Code.

27. *Public works open.*—In my report for the fortnight ending the 31st December, I stated that the contract system had been prohibited on all works carried out by the District Board. This statement was made in error. Work is carried out by the District Board on a modified contract system. The restrictions imposed are that contractors must accept all labour which offers itself, and must pay for it at the rate of Rs. 1-4-0 per hundred cubic feet. The circumstances under which the Lieutenant-Governor has agreed to the present system being tentatively maintained were fully discussed on the conference held at Durbhunga.

The following works are now being carried out by the District Board:—

1.	Phulparus-Gongaria	road repairs.	7.	Barhi	road repairs.
2.	Kumtant-Pupri.	„	8.	Benepati-Harlaki	„
3.	Raika-Jainagar	„	9.	Mirzapore-Jainagar	„
4.	Mirzapore-Burha.	„	10.	Benipati-Bulwa	„
5.	Khajouli-Madhubani.	„	11.	Balwa-Madhwapore	„
6.	Khajouli-Lodania	„	12.	Umgaon-Cherawt	„

This information relates to the fortnight ending the 5th January. Exact figures of attendance are not available; but estimating numbers according to the mayments made, the Sub-divisional Officer states that the attendance was 3,246 men in the first and 4,733 men in the second week. No women or children appear in the statements, but from Mr. Greer's personal observation it would appear that women and children are also working. Payments are made according to the work done independently of the sex or age of the labourers. It

will be seen that the labour on the roads is distributed throughout the four circles into which the affected area has been subdivided, being most extensive in the worst affected tracts.

The following roads are under repair by the Madhubani Local Board :—

1. Mirzapore-Motipore.
2. Janjharpore-Modheypur.
3. Mirzapore-Belwa.
4. Kewna-Johara.

Attendance figures on these works are not available.

The two test works at Lodania and Lowkaha are still open. The attendance on them is small.

The District Engineer has arranged to take them over.

The Sub-divisional Officer is engaged on making a list of tanks upon which work can be commenced hereafter should necessity arise.

Several works have been undertaken by private individuals at their own expense within the sub-division at Salempore within the Madhwapore outpost jurisdiction: two tanks are being excavated by Buchoo Soonri and Halman; they are estimated to cost Rs. 450 and Rs. 400 respectively. In Palhnarguan two tanks are being excavated by Jamah Rast and Boloram Kandoo, and a third tank is being excavated by , employing 100 labourers on it.

In the Buchour neighbourhood tanks are being excavated at Rajuyar (350 labourers employed), Thabur (80), Sedhef Kulan (100), Bochoura (80), Paduma (100), Koomar Khal (100), Patharyarha (160).

The Rajah of Buchour is reported to be giving employment to a large number of labourers on a tank at Narar, and will provide further works to relieve distress in his estate.

At Lurkaha tanks are being excavated by Koonja Lall Saho at Luchminore at an estimated cost of Rs. 1,000; at Bahuputty a tank estimated to cost Rs. 1,000 is being excavated by Girdhary Beldar; at Karmegh a tank to cost Rs. 500 by Hulman; at Habaha a tank to cost Rs. 700 by Bhoka Oja, at Kotpore Sah a tank to cost Rs. 600 by Mondar, and also tanks at Lukeh Taht at Madonpore and jote Tarsahi.

At Phulparas two tanks are being excavated, one by Chede at an estimated cost of Rs. 600, and one at Lugapoti by Khub Lall at an estimated cost of Rs. 700.

Details of the attendance upon these tanks are not available, but the above information affords evidence of the extent of the private relief agency and of the means of employment offered to the inhabitants. Making a rough estimate of numbers, it may be said that in the Madhubani sub-division not less than from 6,000 to 7,000 persons are obtaining employment.

28. *Establishment and circle organization.*—The question of increase of establishment will be separately dealt with. It is absolutely necessary with the Durbhunga system of employing labourers on the modified contract system to have a very efficient circle organization. Circle officers will have to go their rounds frequently and systematically to satisfy themselves that all persons in need of employment are able to get it. They will also have to satisfy themselves that payments are made punctually at short intervals, and that each individual labourer is able to earn a wage sufficient to purchase a day's food. At present payment is made according to the amount of work measured up, and the distribution of wages to individuals is not made. Very strict supervision consequently will be required to ensure that the weakest and least efficient member of the gang gets sufficient for the day's food. This is the more necessary, as under the Durbhunga system the principle of providing task work for the more feeble workers has not been brought into operation.

No change has been made in the scheme of circle organization, but the Collector does not think that officers of the status of canoongoe can be entrusted with the responsible duties of circle officers. This is a point which will be dealt with when the question of establishment is being discussed.

29. *Prices of foods-grains and stocks.*—A price current statement is annexed. The Sub-divisional Officer writes:—

"Throughout the sub-division there is a tendency to a rise in prices, but nowhere has there been an increase of serious consequence. Grain is being extensively imported from the south-east of Madhubani and the Durbhunga Sudder sub-division."

30. *Financial statement.*—I will submit shortly an application for allotment of funds under the various heads of expenditure. In the meantime I have authorized Collectors to incur expenditure in anticipation of sanction. When submitting this application I hope to be able to discuss the question of the suitability of making advances under the Agriculturists' Loans Act as a form of relief. I may here state that on the whole district officers are against making these loans at present. Some light will be thrown upon the question by an examination of the figures showing the percentages of recovery made in the several districts of amounts so lent during the famine of 1873-74.

31. The important points I have to bring to notice in this report are—

1st.—That detailed enquiries made village by village in the Madhubani sub-division confirm the opinion already expressed by the Collector as to the extent of almost complete failure of the *dhan* harvest in certain tracts of that sub-division.

2nd.—That public works in the affected tracts of the Madhubani sub-division are being carried out on a modified contract system, no provision being made to give weakly or unskilful coolies employment under any system approximating to task work.

3rd.—That in Chumparun, as will be seen from the figured statements attached, the payment by result system has been widely introduced, and that side by side with it the system of payment by task work is also in force.

4th.—Figured statements for Mozufferpore are not available, but there also the system of payment by results has been widely introduced. The Collector will be asked to submit statements which will show whether the task work system is in force.

5th.—In my opinion the provision of employment under the task work system is an integral part of the scheme for relief, is formulated in the Famine Code and should be insisted upon, due discretion being exercised in drafting the able-bodied to the payment by results works. An expression of the views of Government upon this point is solicited.

6th.—There is a marked steady increase in the number of persons on the works in Mozufferpore. Attendance figures, which fell very rapidly upon the introduction of the payment by results system in Chumparun, are again going up rapidly. In Durbhunga there would appear to be also a steady increase in the number of persons on the works.

7th.—A strong expensive agency will be required in connection with the modified contract system upon works in the Durbhunga district.

8th.—Grain-stocks everywhere are reported to be sufficient. Prices of food-grains are fairly stationary. The late rain does not appear to have done any benefit to the *rubbi* crop in the affected areas, though it has much benefited the *rubbi* elsewhere in places.

9th.—No increase of crime of importance is reported. Up to the present the measures of relief taken have been sufficient for the protection of the population of the affected tracts, and the arrangements made are capable of expansion should the number of persons seeking relief rapidly increase.

DURBHUNGA DISTRICT.

Price-current in Madhubani Sub-division.

Madhubani ...	13	seers of 80 tolas to the rupee.			
Jhanjharpore ...	15	,, 80	ditto ...	*Rubbi* in good state.	
Beniputty ...	13	,, 80	ditto ...	Old rice ; 16 seers new rice.	
Hurlakhi ...	13	,, 80	ditto ...	*Rahar* doing well.	
Madwapore ...	13 & 14	,, 80	ditto ...	Ditto.	
Khajouli ...	15	,, 80	ditto ...	*Rubbi* prospects good.	
Deodha ...	15	,, 80	ditto ...	Ditto,	in wet lands.
Lodania ...	14 to 14½	,, 80	ditto ...	Rain wanted.	Crop good up to the present.
Phulparas ...	16	,, 80	ditto ...	Ditto.	Ditto.
Loukaha ...	15	,, 80	ditto ...	Ditto.	Ditto.
Loukahi ...	17	,, 80	ditto ...	Ditto.	Ditto.
Madhaipore ...	16	,, 80	ditto ..	Ditto.	Ditto.
Durbhunga ...	15	,, 80	ditto ...	Fairly good *rubbi*.	
Tajpur ...	Not given		...	Excellent *rubbi*.	

C.

Statement showing the number of labourers employed on the different works under execution from 1st to 15th January 1889, in the district of Chumparun, paid from Special Government Relief Fund.

FAMINE RELIEF.

NAME OF WORK.	TOTAL NUMBER OF LABOURERS EMPLOYED ON EACH WORK.					Amount.	REMARKS—Paid by daily wage or piece-work.
	Men.	Women.	Boys.	Girls.	Total.	Rs. A. P.	
In Circle A, Baharwa tank ...	761	129	126	106	1,122	11 3 9	Task work, 3rd to 15th.
,, A, Ganga-Pipra ...	599	5	145	..	749	Not paid yet	Piece ,, 9th to 15th.
,, A, Pipra ...	200	126	94	104	524	17 14 3	Task ,, 11th to 15th.
,, A, Narkatia ...	302	20	76	46	444	Not paid yet	Piece ,, 11th to 15th.
,, A, Bakhri ...	1,024	718	391	398	2,531	72 2 9	Task ,, 1st to 15th.
,, A, Bholalpore ...	1,927	686	460	351	3,424	142 15 0	,, ,, 4th to 15th.
,, A, Shikarkunge ...	918	449	497	302	2,166	74 1 9	,, ,, 1st to 15th.
,, A, Dhaka ...	1,433	973	807	727	3,940	115 5 3	,, ,, 4th to 15th.
,, A, Persa ...	1,604	836	391	327	3,158	Not paid yet	Piece ,, 4th to 15th.
,, A, Bholalpore, No. 2	1,997	1,386	1,275	1,084	5,742	179 9 0	Task ,, 1st to 15th.
,, B, Padumker ...	65	55	39	19	178	3 0 0	,, ,, 1st to 2nd.
,, B, Patahi ...	1,059	289	194	141	1,683	67 2 9	Both ,, 1st to 15th.
,, B, Saraya Gopal ...	350	158	98	85	691	36 13 3	Task ,, 9th to 15th.
,, B, Nunpherwa ...	894	89	50	20	1,053	65 9 3	Piece ,, 2nd to 15th.
,, B. Champapore ...	844	311	393	94	1,642	55 6 0	,, ,, 1st to 15th.
,, B. Dhadhi Bakri ...	1,667	377	201	153	2,398	88 1 9	,, ,, 7th to 15th.
,, C, Semra ...	139	112	119	100	470	10 3 0	Both ,, 12th to 15th.
,, C, Katsahea ...	2,161	1,258	1,123	783	5,325	155 8 6	,, ,, 1st to 15th.
,, D, Gamharia ...	3,033	1,130	650	670	5,489	213 0 9	Task ,, 2nd to 15th.
,, D, Hirapore ...	2,489	1,470	2,691	2,881	9,531	328 4	Both ,, 1st to 15th.
,, D, Goapari ...	917	520	807	804	3,048	125 14 0	,, ,, 1st to 15th.
,, D, Tolahra ...	744	696	948	943	3,331	119 2 6	Task ,, 1st to 15th.
,, E, Pach Pakri, No. 1	837	80	103	74	1,094	57 9 9	Both ,, 1st to 15th.
,, E, Basaiha ...	963	327	304	150	1,644	82 3 0	,, ,, 1st to 15th.
,, E, Pach Pakri, No. 2	505	238	114	85	942	42 3 6	,, ,, 1st to 15th.
,, F, Chamai ...	259	32	76	3	370	18 4 0	Piece ,, 11th to 15th.
,, F, Dhanauji ...	270	11	6	3	290	11 1 6	,, ,, 10th to 15th.
,, G, Barnaha ...	1,340	35	293	18	1,686	86 5 6	,, ,, 7th to 15th
,, G, Chaita ...	408	15	85	......	508	10 9 9	,, ,, 6th to 15th.
,, G, Parsuni ...	367	23	16	7	413	29 14 9	,, ,, 6th to 15th.
,, G, Bokane ...	1,089	103	161	75	2,438	124 12 0	,, ,, 5th to 15th.
,, G, Pakri ...	208	7	15	.....	230	13 7 9	,, ,, 10th to 15th.
Total ...	32,293	12,734	12,674	10,553	68,254	2,366 13 9	
Daily average ...	2,744	1,001	994	796	5,535	......	

A. POWER,
Collector.

Statement showing the number of labourers employed on the different works under excution in the district of Chumparun paid from Private Fund.

NAME OF WORK.		TOTAL NUMBER OF LABOURERS EMPLOYED ON EACH WORK					Amount.	REMARKS—Paid by daily wage or piece-work.
		Men.	Women.	Boys.	Girls.	Total.		
							Rs. A. P.	
Hossempore Hurdia pine	...	288	......	......	......	288	83 6 3	Piece-work, 10th to 15th.
Hurdia-Jowah do.	...	86	......	......	......	86	15 12 3	Ditto, 1st to 3rd.
Hurdia-Bukri do.	...	1,342	......	... ..	......	1,342	138 4 3	Ditto, 1st to 15th.
Gurganwah do.	...	740	... .	......	......	740	111 10 8	Ditto, 1st to 15th.
Manhangna do.	...	728	......	......	......	728	82 2 6	Ditto, 6th to 15th.
Phulwaria do.	...	26	... ..	. . .	......	26	16 7 3	Ditto, 14th to 15th.
Goburria do.	...	*8,600	..	...	.. ...	8,600	589 12 11	Ditto, 1st to 15th.
Jhanjira and Bharwa bunds	...	7,406	3,328	2,701	2,227	*15,662	835 5 9	Ditto, 1st to 15th.
Pine into Bukri	..							
Total	...	19,216	3,328	2,701	2,227	27,472	1,832 13 5	
Total average	...	1,387	222	180	148	1,937		

A. POWER,
Collector.

A.

Statement showing the number of labourers employed on the different works under execution in the district of Chumparun paid from the District Board Fund.

							Rs. A. P.	
Dhaka-Ghorasahan road ...	...	137	... ..	21	...	158	9 5 0	Daily labour, 8th to 13th.
Dhaka-Phulwaria ,, ...	...	1,690	1,317	254	193	3,454	170 7 0	Ditto, 1st to 15th.
Kutkenwah-Telhara ,, ...		676	422	211	122	1,431	66 7 6	Ditto, 1st to 14th.
Dhaka-Padumkar ,, ...	. .	157	1	... .	......	158	8 9 3	Ditto, 9th to 13th.
Dhaka-Etwa Ghat ,, ..	..	291	...	17	.	308	18 2 9	Ditto, 10th to 13th.
Dhaka-Phulwaria ,,		313	284	103	225	1,015	28 0 0	Task work, 1st to 3rd.
Motihari-Dhaka ,, and Lalbegia gep	..	1,050	561	380	248	2,239	118 13 3	Ditto, 2nd to 15th.
Total	...	4,314	2,585	1,076	783	8,763	419 12 9	
Total average	...	466	253	130	114	963	. . . .	

A. POWER,
Collector.

Prospects of rubbi.

THANA.			Total number of villages.	Percentage of villages with the estimated outturn in annas.									
				0	1	2	4	6	8	10	12	14	16
Benipati	...	...	176	2·84	1·13	*76·12	17·61	·56	1·70	......	......	......	...
Phulparas	...	...	195	·51	46·66	43·07	8·30	1·02	..... .	......	.. .	......	. ....
Khajouli	.		126	21·42	6·34	†5·55	9·52	......	34·12	...	23·01	.. ...	...
Madhubani	...	...	193	8·8	11·91	56·99	22·27	......	......	.....	.....	.....	......
Total		..	690	7·24	17·97	‡42·89	20·42	·43	6·66	......	4·22	......	...

* Three annas, 16·56.
† Three annas, 3·97.
‡ Three annas 5·79.

Outturn of dhan, Madhubani Sub-division.

Benipati	...	...	184	1·63	10·86	21·92	23·36	10·86	19·02	3 8	4·89	2 19	1·63
Khajouli	.	. .	179	17·31	10·05	33·51	20·04	1·67	7·31	..... .	2·79	1·67	5·58
Phulparas	...	...	236	13·19	·42	10·21	11·91	4·25	28 08	8·26	19·14	...	4·68
Madhubani	.	...	199	·5	.. . .	......	... ..	·5	38·08	27 08	26·68	5·02	... .
Total		...	797	8·15	4·89	15·55	13·42	4·26	23·96	10·29	14·05	2·38	3·01

REGISTRATION OF VITAL STATISTICS OF EUROPEANS AND EAST INDIANS.

MUNICIPAL DEPARTMENT—SANITATION.

Calcutta, the 9th February, 1889.

RESOLUTION.

READ—

Resolution of this Government, No 1, dated 15th September 1869.

Letter No. 4929, dated 23rd July 1888, from the Sanitary Commissioner for Bengal.

In the Resolution of this Government, dated 15th September 1869, a set of rules, prescribing the forms in which the mortuary statistics relating to natives of this country, of all classes and creeds, were to be embodied, and the procedure to be adopted by the officers upon whom the duty of preparing the returns would fall, was circulated to the Commissioners of Divisions for communication to the officers concerned. It was stated that the mortuary statistics of Europeans and East Indians would not be included in these forms, but that a separate set would subsequently be issued for this purpose. The mortuary statistics of Europeans and East Indians are now prepared under the rules issued with Government Resolution, dated 4th October 1872, for the submission of quarterly returns of baptisms, marriages, and burials of European Christians. The Sanitary Commissioner, in his letter No. 4929, dated 23rd July 1888, has now pointed out that, in consequence of this arrangement, the mortuary statistics of Europeans and East Indians are not included in the weekly and monthly returns which are submitted to him by municipalities, and that the mortuary statistics of the Province, which are compiled from these returns, are consequently inaccurate. The Sanitary Commissioner now proposes that municipalities should be empowered to record all births and deaths occurring within municipal limits irrespective of nationality or religion, and that all deaths in hospitals, dispensaries, lunatic asylums, and jails should be reported to the Municipal Commissioners. Under Act IV (B.C.) of 1873, the necessary power to carry out these proposals has already been extended to all municipalities in which that Act is in force, but it appears that the Municipal Committees have hitherto continued to follow the rules laid down in the Resolution of 1869.

The Lieutenant-Governor approves of the proposals of the Sanitary Commissioner, and is pleased to direct that the Commissioners of all municipalities, to which Act IV (B.C.) of 1873 has been extended, shall in future record all births and deaths, and that registrars of vital statistics in rural areas shall record all deaths, occurring within their jurisdictions irrespectively of nationality and religion Sir Steuart Bayley also directs that all deaths in hospitals, dispensaries, lunatic asylums, and jails, situated within the limits of municipalities, be reported to the Municipal Commissioners. A column should be added to each of the Forms A to F to show the births and deaths of Europeans and East Indians.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Sanitary Commissioner, the Inspector-General of Civil Hospitals, Inspector-General of Jails, Inspector-General of Police, and Inspector-General of Registration and Registrar-General of Births, Deaths, and Marriages, for information, and to all Commissioners of Divisions for information and communication to municipalities situated within their jurisdiction, and to the General Department for information and such action as may be deemed necessary.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

H. J. S COTTON,

Offg. Secy. to the Govt of Bengal.

PUBLIC WORKS DEPARTMENT.

The 12th February 1889.—The following letter is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal,
P. W. Dept.

FEEDER ROAD FROM HARIPAL TO BUNDERHATTY.

No. 451C, dated Calcutta, the 12th February 1889.

From—W. B. Bestic, Esq., Under-Secy. to the Govt. of Bengal, P. W. Dept.,
To—The Commissioner of the Burdwan Division.

I am directed to acknowledge the receipt of your letter No. 51T—L. W., dated the 29th ultimo, reporting that Babu Nresingha Churn Auddy has contributed the sum of Rs. 15,000 towards the cost of a feeder road from the Haripal station of the Tarkessur Railway to Bunderhatty.

2. In reply, I am to request that you will be so good as to convey to Babu Nresingha Churn Auddy the thanks of the Lieutenant-Governor for his liberality in subscribing to this work, which will be of great benefit to all residents of the surrounding neighbourhood.

3. This letter will be published in the Supplement to the *Calcutta Gazette* for general information.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 9th February 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN.			
1	Burdwan Feb. 9, '89	Nil	Weather—fair and cool. *Rubbi* crops are being harvested, and pressing of sugarcane continues. Yield good. Average price of rice 17½ seers per rupee.
2	Bankoora „ 9, '89	Nil	Weather—seasonable. *Rubbi* prospects continue fair. No change in prices.
3	Birbhum „ 9, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops good.
4	Midnapur „ 9, '89	Nil	Weather—still cool. *Boro* crop is fair in Ghatal, but poor in Tumluk. *Rubbi* crops are fair after the late rain.
5	Hugli „ 9, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops favourable.
	Howrah „ 11, '89	Nil	Weather—seasonable. *Amun* crop harvested. Prospects fair.
	Central Districts.		
6	24-Perghs. Feb. 12, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops fair. Tillage going on. Manufacture of sugar progressing.
PRESIDENCY DIVN.			
7	Nuddea „ 9, '89	Nil	Weather—cool and seasonable with heavy fog on one day. Prospects of *rubbi* crops fair on the whole, but less favourable in Kooshtea than elsewhere. Some damage was done to the crops in Ranaghat by hail in the previous week. Cutting of sugarcane in progress.
8	Khoolna „ 9, '89	Nil	Weather—cool. *Amun* crop harvested. Cold-season crops doing well.
9	Jessore „ 9, '89	Nil	Weather—seasonable. *Rubbi* crops are being harvested with fair outturn.
	Narail ...	0·09	
10	Moorshedabad „ 9, '89	Nil	Weather—bright and cold. *Rubbi* crops promise well. Harvesting of *haimanti* rice nearly completed.
RAJSHAHYE DIVN.			
11	Dinagepur „ 9, '89	Nil	Weather—getting warm. Lands are being prepared for *bhadoi* rice and jute. Prospects of *rubbi* still reported fair, though some damage was done by the late hail-storm in the southern thanahs. Price of rice continues stationary.
12	Rajshahye „ 9, '89	Nil	Weather—a little warmer, but seasonable. Condition of spring crops fair. The average price of rice is 16½ seers per rupee. Ploughing for rice and jute going on. About 4 annas of ganja crop in the Nowgong sub-division damaged by rain and hail-storm.
13	Rungpur „ 9, '89	Nil	Weather—seasonable. The late rain has materially benefitted the standing crops. Land is being prepared for *aus* and jute.
14	Bogra „ 9, '89	Nil	Weather—fine and cool. Damage to some of the *rubbi* crops has been done by hail, but others have been improved by the rain of the previous week. Potato is a fair crop. Sugarcane is being cut. Price of rice steady.
15	Pubna „ 9, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops improved. Outturn of sugarcane fair.
16	Darjeeling „ 9, '89	Nil	Weather—bright and cold. Crop reports generally favourable.
17	Julpigoree „ 9, '89	Nil	Weather—nights and mornings cool; days rather warm for the season. Reaping of *haimanti* rice finished. The outturn in the sub-division of Alipore is estimated at 8 annas, but the average outturn for the district may be placed at 10 annas. Tobacco and other cold-weather crops are doing well.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca Feb. 9, '89	Nil	Weather—cold and mostly fine. Mustard and pulses are being gathered. Cutting of sugarcane continues. Ploughing has commenced. Prospects good.
	Manickgunge ..	1·26	
	Munshigunge ...	0·11	
19	Furreedpur „ 9, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops fair.
20	Backergunge „ 7, '89	0·64	Weather—seasonable. Prospects of crops fair. Harvesting of *amun* crop completed; outturn reported to be 12 annas.
21	Mymensingh „ 8, '89	0·11	Weather—very cold. Prospects of crops good.
	Jamalpur ...	1·58	
	Netrokona ...	0·17	
CHITTAGONG DIVN.			
22	Chittagong „ 12, '89	Nil	Weather—seasonable. Winter crops thriving. Rain wanted. Prices of paddy and rice rising.
23	Noakholly „ 8, '89	1·08	Weather—seasonable. *Rubbi* crops getting on well. Late rain has done much good to them.
	Fenny ...	1·10	
24	Tipperah „ 7, '89	0·13	Weather—seasonable. Prospects of the winter crops, which have been much improved by the recent rain, are fair.
	Brahmanberiah ...	0·91	
	Chandpur ...	1·28	
25	Chittagong Hill Tracts. „ 5, '89	0·57	Weather—chilly with foggy mornings. The gathering of mustard has commenced in some places. Tobacco, chillies and other winter crops thriving well. A fall of rain on the 1st has greatly improved the condition of the winter crops.
	Hill Tipperah „ 6, '89	0·52	Weather—cold. Tobacco and chillies doing well. In the hills, *jums* are being cut.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIVN.			
26	Patna Feb. 9, '89 Dinapur ... Barh ...	Nil 0·77 0·37	Weather—cold. Prospects of *rubbi* continue favourable. Harvesting of early mustard commenced In the Barh sub-division the late rain has done slight damage to gram and *mussoor*. Prices stationary.
27	Gya „ 9, '89	Nil	Weather—fair and seasonable. Harvesting of paddy almost finished. *Rubbi* crops coming on well. Poppy is progressing.
28	Shahabad „ 9, '89	Nil	Weather—much warmer, but fair. *Rubbi* crops doing well. Peas and *masuri* are being harvested, and wheat and barley are in ear. Poppy promises well and does not seem to have been damaged by last week's rain. Prices stationary.
29	Durbhunga „ 9, '89	Nil	Weather—bright. Last week's rain has considerably benefitted *rubbi* and indigo. It has, however, done injury to *rahar* and tobacco in places where hail has fallen. Lands are being prepared for *mung, cheena* and paddy sowings. Prices of common rice ranging from 14 to 19 seers per rupee.
30	Mozufferpur „ 9, '89	Nil	Weather—clear and dry; getting warmer Reports from all parts of the district show that the late heavy rain has done much good. Prospects of the *rubbi* harvest are excellent. *Cheena, mung* and sweet potatoes, which are largely consumed by the poorer classes, are being cultivated in North Sitamurhi and elsewhere. No material change as yet in prices.
31	Sarun „ 9, '89 Sewan ...	Nil 0·63	Weather—fair with strong west wind. Cloudy in the beginning of the week. Prospects of *rubbi* crops continue excellent. Poppy is also doing well. Lands are being prepared for indigo and sugarcane.
32	Chumparun „ 9, '89	Nil	Weather—fair; getting warm gradually. *Rubbi* and poppy doing well. The rainfall of last week has facilitated sowing of *cheena*, which is grown over a large area in this district. Prices almost stationary.
BHAGULPORE DIVN.			
33	Monghyr „ 9, '89	Nil	Weather—seasonable and fine. *Rubbi* crops are doing well. Prospects good.
34	Bhagulpur „ 9, '89	Nil	Weather—seasonable. Harvesting of mustard nearly over. Lands are being prepared, and *cheena* is being sown. Prospects of the *rubbi* crops continue fair, but the recent hail is reported to have injured wheat in the Sudder sub-division. Harvest of peas and gram has commenced.
35	Purneah „ 9, '89	Nil	Weather—clear and seasonably cold. The late rain is said to have done much good to the *rubbi* crops.
36	Maldah „ 9, '89	Nil	Weather—fair and cool. Serious damage is reported to have been caused by hail-stones to the *rubbi* crops in thanah Kharba, where the yield is expected to be not more than 6 annas on the whole. In other thanahs, viz., Shibgunge, Nawabgunge and Ratua, rain has improved the prospects. *Boro* paddy is being transplanted.
	Sonthal Perghs. „ 9, '89 Deoghur ...	Nil 0·08	Weather—clear and cold. *Rubbi* prospects fair. Sugarcane pressing has begun. Prices stationary, but higher than usual.
ORISSA.			
ORISSA DIVN.			
38	Cuttack Feb. 8, '89	Nil	Weather—seasonable. *Sarad* is being threshed. *Rubbi* crops are being gathered. *Dalua* rice doing well. Prices stationary.
39	Pooree „ 7, '89	Nil	Weather—seasonable. Threshing of the winter crop (late *sarad*) is nearly over. *Dalua* crop is doing well. Rain is wanted for *mung* crop. Common rice 19 seers 12 chittacks per rupee in the Sudder sub-division and 17 seers 7 chittacks in the Khoorda sub-division.
40	Balasore „ 8, '89	Nil	Weather—again somewhat cooler. Sugarcane is being pressed. *Dalua* rice and cotton (both very petty crops) doing well.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.			
41	Hazaribagh Feb. 8, '89	Nil	Weather—bright and cold Prospects of *rubbi* and poppy crops are unchanged, except in Gawan, Kharrukdiha and Giridi, where some damage is reported to have been done by hail. Mustard is being gathered with about an 8-anna crop. Sugarcane pressing continues; probable outturn between 8 and 10 annas. Prices rising.
42	Lohardugga ...		Report not received.
43	Singbhoom „ 8, '89	Nil	Weather—dry and very hot. *Rubbi* crops being harvested; outturn 6 to 8 annas. Prices stationary.
44	Manbhoom „ 9, '89	Nil	Weather—fair and seasonable. Pressing of sugarcane continues vigorously; outturn 8 to 12 annas. Mustard, wheat and barley growing; expected average outturn 8 annas. New rice selling at 18 to 22 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 12*th February* 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	Stock in hand as compiled on—												
	1st week of Feb. 1888.	1st week of Mar. 1888.	1st week of April 1888	1st week of May 1888	1st week of June 1888.	1st week of July 1888.	1st week of August 1888	1st week of Sept. 1888.	1st week of Oct. 1888.	1st week of Nov. 1888.	1st week of Dec. 1887.	1st week of Jan. 1889.	1st week of Feb. 1889.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	7,84,000	8,54,000	10,07,000	9,43,000	8,66,000	7,07,000	6,45 000	5,87,000	3,63,000	3 31,500	3,29,000	3,98,000	7,77,000
Ooltadanga	75,900	87,700	1,64,200	1,42,910	1,43,300	1,34,400	1,10,400	96,100	76 200	65,600	63,500	76,300	71,400
Chitpore, Golabaree, Coomertooli, Hatkhola, and Culpi Ghât.	4,82,200	6,06,100	6,61,500	6,73,100	6,49,900	6,17,600	6,90,800	5,60,500	7,14 900	6 07,300	6 51,400	6,40,200	6,96,600
Pathuriaghatta, Posta, and Jorabagan.	4,000	3,700	5,000	4,000	4,001	3,401	4,000	3,000	2,000	3,000	2 500	4,000	3 500
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,47,600	1,98,100	1,96,600	1,44,700	1,44,500	1,32,800	1,08,400	89,800	1,03 300	95,700	98,100	1,06,600	1,26,600
21 Minor Bazars (estimated) ...	2,40,060	2,40,000	2,40,000	2,40,000	2,41,001	2,40,000	2,40,000	2,40,000	2,40,000	2,40,600	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreswur, and Chandernagore.	12,194	9,277	12,842	13,210	15,687	14,455	51,646	34,012	27,945	24,210	22,206	22,530	14,924
Total ..	19,95,894	22,48,877	25,37,142	24,10,910	23,13,387	20,99,955	20,00,216	18,60,412	17,77,345	17,07,310	16,61,706	17,46,630	21,80,024
On Railway premises on both sides of the river.	13,458 (on 3rd Feb. 1888.)	22,936 (on 3rd March 1888)	22,345 (on 4th April 1888)	8,290 (on 4th May 1888)	7,458 (on 4th June 1888)	7,624 (on 4th July 1888)	2 235 (on 4th August 1888)	5,027 (on 4th September 1888)	14 112 (on 4th October 1888)	10,475 (on 3rd Nov. 1888)	7,865 (on 3rd Dec. 1888.)	11,491 (on 4th Jan. 1889).	15,074 (on 4th February '89.)
On boats unloaded ... By Port Commissioners' returns.	83,731 (1st to 3rd Feb. 1888.)	79,553 (1st to 3rd March 1888.)	46,846 (1st to 3rd April 1888.)	14 021 (1st to 3rd May 1888)	36,672 (1st to 3rd June 1888)	31,787 (1st to 3rd July 1888.)	32,044 (1st to 3rd August 1888)	46,697 (1st to 3rd September 1888.)	36,342 (1st to 3rd October 1888)	55,943 (1st to 3rd November 1888)	41,600 (1st to 3rd Dec. 1888.)	49,005 (2nd to 4th Jan. 1889.)	44,923 1st to 3rd February '89.)
By Canal returns	2,13,833 1st to 3rd (Feb. 1888.)	1,91,087 (1st to 3rd March 1888)	85 659 (1st to 3rd April 1888.)	46,728 (1st to 3rd May 1888)	25,540 (1st to 3rd June 1888)	28,366 (1st to 3rd July 1888)	38,091 (1st to 3rd August 1888.)	52,216 (1st to 3rd September 1888.)	81,787 (1st to 3rd October 1888.)	70,552 (1st to 3rd Nov. 1888.)	27,665 (1st to 3rd Dec. 1888.)	1,24,374 (2nd to 4th Jan. 1889.)	1,43,475 (1st to 3rd February '89.)
Grand Total of Stocks ..	23,06,916	25,33,453	26,91,992	24 79,949	23,83,057	21,72,732	20,93,236	19,64,351	19,09,586	18,44,280	17,38,836	19,31,500	23,83,496
Probable stock available for exportation by sea.	12½ lakhs	14¾ lakhs	16¾ lakhs	14¾ lakhs	13¾ lakhs	11½ lakhs	10½ lakhs.	9 lakhs	8½ lakhs.	8 lakhs.	6¾ lakhs.	8¾ lakhs.	13¾ lakhs

STATISTICAL DEPARTMENT,
The 11th February 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

I.—Table showing the Monthly and Annual Rainfall at 253 Rainfall-recording Stations in Bengal for 1888.

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ORISSA.														
Pooree	Pooree	1·19	1·80	0·06	—	4·06	2·13	3·51	14·47	6·77	2·47	7·66	—	44·21
	Khurdah	0·67	0·20	0·04	—	1·33	3·65	7·64	15·18	10·27	0·60	5·71	—	45·29
	Banpur	0·20	0·59	0·14	0·45	0·92	3·15	6·76	13·52	7·17	2·89	3·49	—	38·78
	False Point	3·74	1·49	0·08	0·08	1·25	2·61	16·87	18·23	8·93	3·14	3·21	—	59·63
	Gop	1·47	0·41	..	—			9·63	21·68	9·23	1·08	5·70	—	49·20?
	Pipli	0·54	0·40	0·46	—			7·35		12·48		5·70	—	26·93?
Cuttack	Jagatsingpore	2·01	1·29	0·30	—	1·30	2·85	10·22	32·02	6·79	1·09	1·94	—	59·81
	Banki	0·66	0·67	0·05	0·40	0·94	4·90	9·63	17·76	7·50	1·25	1·77	—	45·53
	Cuttack	0·84	0·62	2·13	—	3·10	1·03	8·88	25·41	10·03	1·41	2·82	—	56·27
	Kendrapara	1·32	2·40	0·74	—	3·48	2·57	6·75	24·69	5·22	0·55*	2·13	—	49·85
	Jajpore	1·05	1·72	0·23	—	3·19	2·42	11·85	25·34	11·02	2·05	2·49	—	64·36
	Dharmsalla	—	1·50	—	—	3·25	1·05	15·58	25·28	9·65	1·30	1·37	—	58·93
	Salipore	1·00		—	—	2·60	4·50	7·05		9·86		1·10	—	20·11?
Balasore	Chandbali	2·50	1·30	—	—	3·40	0·61	10·86	24·50	8·80	0·30	3·08	—	55·35
	Bhuddruck	1·47	2·86	1·30	1·05	5·23	2·57	11·14	13·48	7·81	1·21	2·07	—	55·19
	Sorah	0·35	2·49	0·82	2·33	6·44	3·72	9·14	17·87	9·51	1·58	3·11	—	57·68
	Balasore	1·85	4·22	0·90	1·85	5·45	1·35	10·13	20·86	16·82	2·08	0·43	—	65·94
	Jellasore	1·30	0·87	0·46	2·30	7·76	3·89	14·29	19·27	10·36	—	0·78	—	61·34
	Baripodah	0·41	2·32	0·31	0·83	6·43	4·01	14·16	18·39	9·62	0·67	1·51	0·02	58·68
SOUTH WEST BENGAL.														
Midnapore	Contai	0·36	3·40	0·37	1·60	3·78	0·93	10·95	26·05	9·63	0·93	3·43	—	61·43
	Saugor Island	0·80	2·97	0·29	0·98	2·96	1·09	9·52	29·35	6·23	2·04	0·90	—	57·13
	Tumlook	0·83	2·10	0·90	2·00	2·50	4·20	16·90	27·41	13·40	1·40	—	—	70·63
	Midnapore	0·88	1·82	0·20	2·83	5·35	3·82	22·34	23·47	7·56	2·45	0·10	—	70·71
	Ghattal	0·87	1·05	1·00	3·01	2·53	6·28	12·52	23·11	11·47	0·27	0·06	—	62·57
	Kukrahatty	1·00	4·74	1·02	2·50	3·91	2·50	16·16	29·16	9·88	2·96	0·59	—	74·70
	Heria	0·67	3·59	0·46	1·91	5·46	0·91	14·92	18·96	10·15	1·23	0·49	—	58·74
	Bhagwanpore	—	3·15	0·49	2·56	5·08	2·42	10·75	18·68	9·15	2·71	1·22	—	56·11
	Garbetta	1·08	1·17	0·46	3·95	1·30	5·60	20·44	29·18	6·76	0·22	—	0·25	71·08
24-Pergunnahs	Diamond Harbour	1·44	4·00	0·30	3·19	2·19	1·28	9·30	31·12	8·79	3·51	0·69	—	66·11
	Canning Town	0·84	3·15	0·54	4·72	2·37	3·79	14·71	25·59	9·09	0·15	0·38	—	65·11
	Alipore Jail	1·36	1·71	2·65	3·96	3·70	3·30	12·15	21·45	10·74	2·52	2·30	—	71·01
	Barrackpore	1·19	1·29	0·54	4·00	3·94	6·17	18·44	21·64	6·95	1·70	2·88	—	68·74
	Dum-Dum	1·24	1·74	1·39	4·48	5·46	3·39	17·19	26·26	7·42	2·87	1·41	—	72·78
	Baraset	0·79	3·24	1·47	0·76	2·55	9·71	17·50	22·83	8·76	1·76	1·61	—	76·98
	Busseerhat	0·63	1·37	1·08	5·13	1·72	6·38	16·84	16·39	6·33	1·04	0·61	—	59·52
Howrah	Howrah	0·97	1·44	1·19	3·65	5·02	4·62	12·87	28·82	9·00	2·37	3·05	—	73·00
	Mohesreka (*Ooloobariah*)	1·52	1·63	0·71	3·11	3·42	3·58	12·56	32·21	4·81	1·82	0·55	—	65·93
Hooghly	Serampore	1·03	1·38	0·58	3·07	3·93	5·80	19·92	23·32	7·82	2·52	3·64	—	73·02
	Hooghly	1·03	1·13	0·68	2·58	2·89	12·09	16·54	25·95	6·19	3·51	1·92	—	72·31
	Jehanabad	1·34	1·05	0·57	2·70	3·28	7·80	19·74	21·69	5·57	0·06	0·50	—	67·10
Burdwan	Culna	1·81	1·05	1·13	1·61	3·21	7·17	20·38	22·61	4·64	0·53	3·79	—	67·93
	Burdwan	1·43	1·11	0·08	1·17	2·19	4·75	14·13	13·74	8·64	0·71	2·68	—	50·63
	Cutwa	0·46	0·88	0·90	1·70	4·35	9·76	15·24	25·64	6·45	0·48	1·31	—	68·76
	Ranigunge	0·43	0·97	0·11	2·01	1·52	9·32	20·21	20·38	5·25	0·11	0·69	—	61·06
	Mankur	1·02	0·82	0·87	1·12	3·30	2·27	19·75	13·33	5·91	0·39	0·11	—	48·97
Bankoora	Bankoora	1·16	0·88	0·04	1·72	2·98	8·49	15·54	16·47	4·47	1·72	1·40	—	52·87
	Bishenpore	1·62	1·66	0·35	3·81	2·37	4·50	15·07	25·30	6·65	—	0·05	—	60·78
	Maharra	0·87	0·70	0·12	1·04	2·59	7·34	17·11	16·07	5·41	0·52	0·60	—	53·07
	Khatra	1·51	0·80	—	0·24	4·51	6·84	17·07	20·02	6·32	—	0·67	0·65	58·46
	Indas	1·10	0·71	0·20	2·16	3·35	5·08	14·26	13·81	4·70	0·17	0·46	—	46·48
	Kotalpur	1·40	1·05	-	2·97	4·05	5·30	14·98	20·96	3·48	—	—	—	54·29
	Anda	0·30	0·90	0·05	1·00	0·75	3·87	13·26	14·51	6·22	0·20	—	—	40·30
	Gangajalghati	0·93	0·63	—	1·71	1·50	7·91	20·04	18·21	5·78	1·17	0·98	—	59·47
	Raipore	0·35	1·13	--	0·6	3·55	5·54	15·86	25·77	4·60	--	0·60	—	58·66
	Sonamukhi	0·78	0·92	0·75	4·10	3·79	4·81	17·12	15·15	4·19	—	1·41	—	53·02
Beerbhoom	Soory	0·55	0·75	1·25	1·28	3·31	6·00	15·60	21·14	6·50	1·10	1·35	—	58·66
	Hetampore	0·36	0·71	—	1·66	2·59	4·93	15·88	22·08	3·61	0·61	1·59	—	50·63
	Rampore Haut	0·46	0·56	—	1·15	3·37	6·22	15·67	26·03	14·12	0·80	1·74	—	71·32
	Bolpore	0·14	0·67	--	3·01	2·55	6·24	21·64	22·02	5·74	3·35	1·27	—	66·96
	Murarai	?	?	?	?	?	?	21·34	19·18	6·55	1·06	—	—	
Nuddea	Ranaghat	1·15	1·32	1·49	1·05	1·96	5·24	23·77	19·98	6·81	1·26	4·45	—	69·31
	Kishnaghur	0·61	0·65	0·72	2·05	2·35	7·42	21·01	20·83	5·87	5·51	1·11	—	73·84
	Chooadanga	0·28	1·72	1·84	3·15	5·35	3·01	15·93	21·55	5·60	1·72	1·15	—	61·68
	Meherpore	0·53	0·87	2·78	3·03	9·02	3·90	15·43	17·90	5·30	0·10	1·19	—	60·24
	Kooshtea	0·49	1·47	3·80	5·12	4·77	0·92	13·75	11·93	7·47	0·32	0·23	—	50·33
Khoolna	Satkhira	0·06	0·12	0·06	4·33	6·59	4·96	14·52	11·72	5·48	0·54	0·72	—	42·90
	Bagirhat	1·99	0·85	0·89	6·69	0·81	6·89	16·84	19·60	4·49	1·39	0·40	—	60·79
	Khoolna	0·79	1·55	3·21	3·89	1·40	4·96	22·10	13·06	4·94	2·10	0·15	—	58·15
Jessore	Narail	1·10	0·79	2·06	3·37	2·47	4·22	9·68	8·74	3·07	0·90	2·14	—	38·54
	Jessore	1·41	1·11	1·90	4·61	2·87	10·70	19·57	14·50	7·35	1·08	2·37	—	67·58
	Jhenidah	0·61	0·88	3·01	4·23	5·43	7·20	10·52	9·66	5·86	0·37	0·72	—	48·58
	Magoora	0·72	0·88	3·15	1·47	4·90	9·62	9·58	11·70	5·62	2·72	1·53	—	54·59
	Bongong	1·37	1·24	0·82	2·87	1·29	4·42	21·72	12·71	5·01	3·05	1·20	—	55·70
Moorshedabad	Kandi	0·57	0·58	0·25	3·60	2·41	7·12	20·68	14·58	4·43	0·67	1·77	—	56·65
	Berhampore	0·33	1·06	1·20	2·73	3·70	4·27	11·89	14·93	5·25	0·63	2·04	—	47·47
	Lalbagh	0·28	2·89	0·35	2·41	3·35	4·61	14·85	13·10	5·86	2·33	3·04	—	51·43
	Azimgunge	?	?	?	?	?	?	?	11·29	6·72	2·62	1·28	—	22·91?
	Jungipore	0·32	0·24	0·03	1·20	3·50	4·37	10·55	15·35	8·46	3·24	6·33	0·30	48·09
	Lalgola	0·07	0·10	0·17	2·15	3·29	6·36	11·11	18·10	12·38	0·50	6·35	0·20	51·14
	Jiagunge	0·38	0·71	0·70	2·37	3·95	6·23	16·41	11·76	7·13	2·00	0·85	0·02	52·91
	Akhrigunj	0·26	0·95	1·01	2·17	6·05	6·54	16·58	9·62	10·12	0·59	0·53	—	54·81
	Patkabari	0·60		0·70	2·20	6·37	7·89	16·16	10·23	3·30	—	1·55	—	49·95
EAST BENGAL.														
Chittagong	Cox's Bazar	5·35		1·17	4·57	10·18	12·30	61·25	45·75	7·08	10·01	Nil	—	159·92
	Chittagong	2·56	·69	1·55	6·64	14·41	9·67	29·84	37·31	11·54	4·24	--	—	120·25
	Kutubdia	5·54	1·18	1·63	6·35	8·67	12·65	42·13	37·15	4·64	12·65	—	—	130·29
	Satkanya	1·95	0·55	0·10	7·51	13·75	8·56	30·39	33·64	7·72	4·65	-	—	107·82
Chittagong Hill Tracts	Rangamati	1·41	0·65	2·47	8·27	6·91	8·60	13·74	32·56	9·13	5·02	0·00	—	88·85
	Ruma	5·28	1·75	1·15	5·00	9·48	5·41	11·38	29·79	8·41	7·43	0·30	—	83·38
Backergunge	Patuakhally	1·58	1·12	1·57	9·07	2·37	6·97	32·56	32·37	4·78	8·01	—	—	100·40
	Ferozepore	1·01	1·20	2·14	6·30	2·05	8·40	20·21	21·84	7·87	0·89	0·09	—	71·95
	Burrisal	2·72	0·94	1·16	3·53	3·18	6·45	21·50	21·23	5·62	8·07	0·24	—	70·03
	Bhola	2·55	1·16	1·67	7·13	2·64	5·92	16·74	27·48	8·46	14·50	0·48	—	88·18
	Gournaddi	0·51	0·22	2·07	9·64	3·3	7·02	19·74	12·10	5·32	2·53	—	—	62·08
	Bauphal	1·26	0·81	0·91	7·74	3·10	6·81	31·41	31·54	9·10	15·35	—	—	111·33

DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
EAST BENGAL—*concluded.*														
NOAKHOLLY ...	Noakholly	1·98	0·36	2·85	8·01	7·72	8·89	34·09	32·45	8·68	16·89	0·09	—	122·01
	Fenny	1·45	0·44	4·62	10·31	5·40	9·60	35·47	30·08	16·06	8·24	0·40	—	123·61
	Harishpore	1·51	0·93	1·20	7·70	8·70	9·94	45·24	40·40	18·97	7·08	0·29	—	141·96
	Ramganj	2·43	0·29	6·11	7·56	3·06	10·05	21·07	27·19	11·51	13·80	0·37	—	105·10
FURREEDPORE	Madaripore	1·00	0·32	2·38	6·36	2·84	7·67	16·72	11·59	5·16	1·08	1·65	—	56·77
	Furreedpore	0·72	1·57	5·69	7·06	4·26	7·71	16·08	14·48	8·74	0·81	0·50	—	68·52
	Goalundo	0·40	1·42	3·92	8·94	5·16	7·92	12·23	14·36	4·92	0·03	0·30	—	60·20
DACCA ...	Munshigunge	0·61	1·79	5·36	8·37	3·32	11·59	22·28	12·14	10·55	1·17	1·07	—	78·55
	Dacca	0·95	1·81	5·57	9·52	4·99	7·83	16·14	15·03	6·91	1·56	0·48	—	70·79
	Naraingunge	0·51	2·18	6·22	11·28	4·36	13·47	22·89	12·97	6·96	2·28	0·71	—	83·83
	Manickgunge	0·46	0·88	2·71	7·58	5·61	6·29	14·43	14·69	3·94	1·03	0·36	—	57·98
	Joydebpore	0·20	0·86	4·01	6·86	10·54	10·45	18·28	15·20	4·03	1·15	0·49	—	72·07
HILL TIPPERAH	Agartola	1·40	1·50	7·00	16·71	14·33	10·80	8·90	14·62	6·88	—	0·45	—	82·08
TIPPERAH ..	Comilla	0·80	1·15	3·57	11·15	9·39	6·23	1[illegible]·81	2[illegible]·84	8·55	6·76	0·35	—	88·70
	Chandpore	1·75	1·20	5·55	8·29	2·75	9·70	19·08	13·80	7·84	3·78	—	—	74·64
	Brahmunberia .	0·74	1·20	6·81	15·88	14·66	16·71	6·80	18·28	12·18	3·61	0·31	—	97·18
	Ramchandrapore .	0·98	1·44	3·62	9·15	9·03	10·09	17·11	11·83	10·45	3·58	0·71	—	78·19
	Nasirnagar	0·34	1·43	3·94	16·15	15·54	8·49	7·20	11·58	11·83	5·80	0·20	—	82·59
	Daudkandi	0·25	1·07	2·23	7·79	3·67	10·78	21·87	14·25	12·72	1·80	0·08	—	76·51
	Kasba	0·25	1·45	8·60	14·60	10·26	15·44	6·90	14·65	8·87	2·25	0·40	—	81·67
	Laksham	0·75	1·15	3·19	11·71	8·36	6·91	24·16	20·67	9·41	12·01	0·35	—	98·67
MYMENSINGH	Kishoregunge ..	0·19	0·70	2·41	11·78	22·13	19·08	10·20	12·26	16·64	3·19	0·45	—	99·03
	Atia (*Tangail*)	—	1·28	1·[illegible]0	5·32	4·37	6·29	9·27	11·06	2·46	4·70	—	—	46·25
	Mymensingh . ..	0·15	0·61	2·74	5·68	21·49	9·69	9·50	15·31	12·24	4·26	0·19	0·05	81·91
	Jamalpore	—	0·35	0·65	4·64	14·57	11·05	12·82	17·49	6·92	1·73	1·42	—	71·63
	Netrokona	0·23	0·64	4·74	4·29	19·76	15·95	19·26	12·98	10·58	2·51	0·09	—	91·05
	Subornakhally	0·17	0·58	0·96	6·19	12·35	10·64	11·98	13·59	9·53	2·17	1·34	0·20	69·69
	Durgapore	0·40	0·50	5·86	9·10	19·87	11·84	2[illegible]·60	23·90	1[illegible]·50	7·70	0·30	—	127·77
	Dewanganj ...	—	—	1·90	3·91	16·00	8·65	12·44	12·69	4·00	3·45	1·07	—	64·11
NORTH BENGAL														
PUBNA ..	Pubna	0·18	1·76	2·19	6·34	4·07	6·17	14·73	10·65	4·65	0·37	0·58	—	51·49
	Serajgunge	0·27	1·82	1·57	5·89	11·25	5·71	10·62	10·75	2·46	1·57	0·12	0·10	52·13
BOGRA .	Sherepore	0·05	0·42	0·97	3·99	8·27	3·18	9·21	12·87	6·32	1·20	1·19	0·23	47·83
	Nowkhilla	—	0·55	0·53	5·85	10·45	9·57	12·60	10·76	5·15	0·51	0·68	0·25	54·94
	Bogra ..	0·07	0·50	0·10	3·25	10·6	5·41	7·88	11·72	5·60	0·27	0·48	—	46·06
	Panchbibi	0·09	0·24	0·06	5·62	10·5[illegible]	5·61	9·31	10·16	7·25	0·08	0·60	—	50·21
RAJSHAHYE ..	Beauleah	—	—	0·09	2·16	4·00	2·58	7·70	0·21	7·75	2·10	0·23	—	36·71
	Nattore	—	1·80	1·40	3·24	6·22	5·11	19·45	14·22	16·35	0·40	0·5	—	67·38
	Naogaon	—	0·50	0·48	1·38	4·20	4·58	11·45	7·21	9·13	0·15	0·21	—	39·12
	Lalpore	0·26	2·42	0·64	4·6[illegible]	5·16	3·06	12·10	11·04	8·81	0·8	—	—	49·42
	Manda	—	0·10	0·40	1·03	5·04	1·59	10·05	8·59	4·44	1·58	0·95	—	32·93
MALDAH .	Maldah	0·02	0·19	0·0[illegible]	0·07	2·6	1·39	14·72	21·27	6·95	1·80	0·22	0·08	49·33
	Cha[illegible]chal . . .	0·13	0·16	0·33	1·41	4·[illegible]1	1·52	9·11	10·45	5·98	1·18	1·0[illegible]	—	37·40
	Gajol	—	0·10	0·30	1·28	3·89	1·90	10·84	13·[illegible]2	6·80	0·24	0·90	—	3[illegible]·57
	Sibganj	0·08	0·15	0·03	0·57	3·41	3·31	19·36	11·74	7·64	0·57	·034	0·20	47·40
DINAGEPORE	Mohadebpore	0·03	0·38	0·53	1·[illegible]	4·82	3·72	13·16	11·98	4·12	0·84	0·10	0·07	41·05
	Churamon	0·13	0·23	0·48	2·05	4·72	2·60	11·92	14·28	16·99	0·79	1·31	0·01	49·51
	Raigunge ..	0·21	0·15	0·86	2·45	7·16	6·08	17·90	10·19	7·26	0·88	0·26	—	55·54
	Dinagepore	0·10	—	0·06	6·65	15·18	7·86	18·40	19·55	4·95	—	0·37	—	61·67
	Baloorghat . . .	—	0·13	0·94	3·76	9·67	5·54	8·82	10·61	3·48	0·16	0·36	—	41·07
	Thakoorgunge .	?	?	?	?	?	?	16·61	10·19	8·56	—	0·48	—	—
RUNGPORE ..	Bhawanigunge (*Gyabanda*)	0·23	0·20	1·78	5·52	14·09	10·50	6·55	11·18	6·60	—	0·55	—	56·80
	Rungpore	0·15	0·19	3·08	5·05	11·80	11·65	7·87	13·27	7·51	0·30	0·97	—	61·54
	Kurigram .	0·16	0·05	2·50	4·77	11·19	30·28	11·9[illegible]	8·16	13·39	1·15	1·1[illegible]	—	84·76
	Baldgaria (*Nilphamari*)	0·32	0·18	2·39	7·21	9·97	1[illegible]·6[illegible]	12·88	8·09	6·17	—	0·7[illegible]	—	64·54
	Ulipore	—	—	3·12	3·30	11·82	18·25	6·76	13·01	8·44	0·95	0·68	—	65·23
JULPIGOREE ...	Julpigoree . .	0·83	0·15	3·46	8·84	5·68	29·73	35·75	20·04	1[illegible]·6[illegible]	1·2[illegible]	0·16	—	118·92
	Alipore Door	1·31	—	1·77	8·76	7·[illegible]	35·06	18·[illegible]1	12·77	11·0[illegible]	0·38	—	—	94·52
	Fallacatta	0·75	0·11	4·97	8·41	6·[illegible]1	30·[illegible]8	26·44	15·53	1·27	2·90	0·35	—	107·25
	Debiganj	0·65	—	2·22	7·41	7·97	2[illegible]·24	14·81	7·8[illegible]	4·84	—	0·4	—	71·58
COOCH BEHAR	Dinhatta	0·72	0·11	2·47	6·08	8·7[illegible]	26·68	1[illegible]·67	23·10	8·33	0·35	0·14	—	10[illegible]·72
	Cooch Behar	0·27	0·14	3·89	8·04	11·6[illegible]	33·09	21·10	14·58	8·14	1·6	0·81	—	104·01
	Mekligunge	0·45	0·06	1·40	6·52	9·36	[illegible]5·1	22·18	8·0	9·21	0·61	0·35	—	82·50
	Matabhanga .. .	0·23	0·03	2·19	7·03	5·88	28·79	14·56	14·[illegible]3	5·28	1·0[illegible]	0·1[illegible]	—	84·48
DARJEELING HILL.	Buxa	2·47	0·56	6·10	8·21	11·87	42·65	42·02	31·78	22·90	5·8	0·94	—	176·03
	Siliguri ...	0·32	0·21	2·93	6·27	8·76	2[illegible]	2[illegible]·[illegible]7	12·90	10·40	2·[illegible]4	0·23	—	95·55
	Darjeeling .. .	0·67	0·85	0·97	3·14	3·88	8·[illegible]	3[illegible]	25·01	1[illegible]·00	0·18	0·30	—	9[illegible]·00
	Kalimpong	0·63	0·90	1·36	2·84	2·14	7·70	3[illegible]·6[illegible]	14·54	10·78	0·14	0·34	—	74·55
NORTH BEHAR.														
PURNEAH	Kissengunge	0·18	—	0·05	11·36	6·01	7·71	17·47	7·12	6·36	0·18	0·51	—	59·57
	Arrareah	0·30	—	1·50	3·31	[illegible]	10·57	19·49	8·84	8·28	—	0·42	—	[illegible]
	Purneah	0·21	0·13	0·6[illegible]	5·48	5·69	1·67	18·15	1[illegible]·2[illegible]	4·3[illegible]	—	0·28	—	49·83
	Gondwara .			0·42	2·53				11·47	1·65	1·20	0·50	—	
	Balarampore		0·15		2·52		2·00	18·05	10·59	8·41	1·08	0·27	—	
	Matiari	0·15	—	1·75	6·73	4·91	7·03	16·62	5·40	5·47	—	—	—	18·04
	Kaliaganj	0·18	—	0·64	5·36	3·04	16·67	21·62	7·72	7·51	1·10	0·23	—	64·07
NORTH BHAGULPORE	Maddapore	0·12	0·09	1·24	3·22	8·80	3·08	21·37	13·11	9·83	—	0·25	—	61·50
	Soopool	0·29	—	0·82	2·22	5·59	3·21	17·60	9·76	6·10	—	0·16	—	45·[illegible]5
	Protabganj . .	0·19	—	0·83	3·59	2·19	7·10	14·[illegible]7	10·46	4·57	—	—	—	43·20
DURBHUNGA...	Tajpore	0·30	—	0·10	0·85	0·90	5·47	14·35	13·02	6·06	—	0·30	—	41·35
	Durbhunga . . .	0·60	—	1·05	2·28	3·80	6·30	14·[illegible]5	[illegible]·70	4·38	—	—	—	[illegible]·14
	Madhubani	0·14	—	0·63	1·57	4·[illegible]8	6·04	14·[illegible]4	9·83	5·65	—	—	—	43·56
	Bahera	0·36	—	0·90	2·35	4·10	5·[illegible]8	18·09	16·18	6·65	—	0·30	—	54·60
	Roshera	0·44	—	—	0·93	1·80	2·04	15·28	14·57	8·27	—	0·49	—	44·23
MOZUFFERPORE.	Sitamarhi	—	—	0·40	3·95	2·30	5·43	15·65	5·[illegible]	2·59	—	0·05	—	35·06
	Mozufferpore	0·74	—	0·23	1·49	1·14	8·00	18·11	9·14	3·78	—	0·28	—	43·61
	Hajipore	0·61	—	0·03	0·20	1·28	3·10	17·93	18·[illegible]5	1·82	—	0·32	—	[illegible]
	Paru	·50	—	—	1·00	1·60	4·26	11·44	13·03	4·29	0·05	0·0[illegible]	—	38·22
	Mahua	·10	—	—	2·40	0·75	2·[illegible]5	11·00	14·0[illegible]	4·[illegible]	—	0·68	—	38·[illegible]
	Siuhar...	—	—	0·50	1·80	2·92	3·70	7·9[illegible]	6·[illegible]7	7·33	—	—	—	30·[illegible]7
	Pupri	—	—	0·20	2·14	4·50	4·32	13·01	6·76	4·57	—	—	—	3[illegible]·[illegible]0
CHUMPARUN ...	Motihari	0·35	—	—	2·14	2·74	6·91	12·30	7·22	6·71	—	0·23	—	38·63
	Bettiah	0·52	—	0·30	1·48	2·23	7·4	18·[illegible]6	9·18	8·54	—	—	—	47·88
	Bagaha	0·28	—	0·25	0·69	2·23	12·68	16·[illegible]0	8·[illegible]9	11·90	—	—	—	5[illegible]·22
	Burhurwa	0·58	—	0·14	1·38	1·87	6·[illegible]5	15·37	11·00	4·07	—	—	—	40·76

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
NORTH BEHAR—*concld.*														
Sarun ...	Gopalgunge	0·69	—	0·07	1·11	1·21	4·38	11·79	11·44	7·18	—	—	—	37·87
	Sewan	0·80	—	—	0·53	0·50	3·04	11·66	12·89	12·24	—	0·25	—	41·91
	Chuprah	1·20	—	0·28	0·10	1·06	2·00	14·43	12·32	5·34	—	0·45	—	37·27
SOUTH BEHAR.														
Shahabad ...	Buxar	1·15	0·02	—	0·01	0·87	2·52	12·11	13·39	11·25	0·60	—	—	41·92
	Dehree	1·77	—	0·13	—	0·63	1·74	15·90	15·36	7·93	1·36	0·56	—	45·38
	Bhuboosh	1·10	—	—	0·20	0·50	1·37	13·37	17·13	7·20	—	0·60	—	41·47
	Sasseram	1·00	—	0·14	0·05	0·23	0·72	14·18	18·81	7·13	—	0·66	—	42·92
	Arrah	0·99	—	—	—	0·55	0·77	17·90	17·74	5·58	0·43	0·47	—	44·43
	Mohaniah	1·30	—	—	—	—	3·20	8·23	14·25	8·30	—	—	—	35·28
Gya ...	Aurungabad	0·83	—	—	—	0·88	2·25	22·04	21·11	5·97	0·71	0·36	—	54·05
	Gya	1·66	—	0·08	0·01	0·23	3·06	10·09	28·59	7·85	0·40	1·14	—	53·11
	Nowadah	1·50	0·02	0·07	—	0·09	1·77	14·89	20·52	4·40	—	0·18	—	49·44
	Jehanabad	1·20	—	—	—	0·27	2·71	12·07	22·06	6·06	0·03	0·59	—	46·55
	Arwal	1·58	0·31	—	—	0·72	1·55	10·61	17·12	7·22	—	0·37	—	39·48
	Daudnagar	1·10	—	—	—	—	0·70	16·58	18·15	6·28	—	0·59	—	43·40
	Sherryhati . . .	0·70	—		—	—	0·20	10·60	17·42	3·50	0·62	0·20	—	33·54
	Rajauli	—	—	—	—	—	1·33	11·20	14·80	0·60	—	—	—	27·93
	Pakri Barawan	0·82	—	—	—	0·50	0·80	11·75	18·87	5·14	—	—	—	37·88
Patna ...	Patna	0·81	—	—	0·03	0·79	2·83	15·14	17·11	3·17	—	0·58	—	40·46
	Dinapore	0·88	—	—	—	0·95	4·61	17·60	15·53	2·70	—	0·31	—	42·58
	Behar	1·04	—	—	0·04	1·49	0·58	20·97	24·41	3·63	0·28	0·87	—	53·81
	Barrh	0·35	—	—	—	1·55	1·30	21·42	17·35	11·20	—	1·00	—	54·17
	Bickram	0·90	—	—	—	0·50	2·00	11·10	17·05	6·35	—	1·00	—	38·90
	Hilsa	1·00	—	—	0·03	0·91	2·29	13·62	23·78	4·69	0·15	0·37	—	46·84
Monghyr ...	Beegooserai	0·82	—	—	0·10	1·04	2·15	16·36	18·27	7·67	—	0·58	—	46·99
	Monghyr	0·55	0·05	—	0·28	2·98	1·24	24·95	14·12	9·95	0·03	0·36	—	54·51
	Jamui	0·94	0·09	—	0·40	1·05	3·62	13·16	25·26	4·16	1·08	0·22	0·07	50·35
	Gogri	Nil	—	—	0·20	3·10	2·52	21·17	19·67	12·04	—	0·19	—	58·89
	Sheikpura	0·40	—	—	—	1·30	2·94	22·21	27·64	4·54	—	—	—	59·03
South Bhagulpore.	Bhagulpore	0·38	—	—	0·96	4·98	1·92	23·73	16·88	0·20	0·07	0·12	—	55·24
	Banka	0·55	0·07	—	0·56	0·59	2·49	10·08	19·14	4·44	2·45	0·57	0·12	41·06
	Kolgong	0·18	—	—	0·51	4·15	4·80	19·38	15·33	6·00	0·87	0·12	—	51·34
Sonthal Pergunnahs.	Rajmehal	0·18	0·07	—	0·57	2·87	2·50	12·77	23·50	4·37	—	0·25	—	47·08
	Godah	0·36	0·10	—	0·37	2·84	5·09	13·17	19·65	5·91	0·83	0·30	0·05	48·67
	Pakour	0·33	0·23	0·34	1·07	3·04	5·68	20·75	19·79	11·12	1·15	0·26	0·56	64·63
	Nya Doomka	0·48	0·46	0·33	1·23	1·72	4·49	12·39	26·36	4·14	1·51	1·36	0·28	54·75
	Deoghur	0·49	0·16	0·63	0·25	1·20	4·21	16·95	22·35	5·47	1·34	0·37	—	53·42
	Jamtara	0·63	0·56	0·19	0·47	2·70	5·19	17·34	22·16	7·10	0·35	0·53	—	57·52
	Mohagama	?	?	?	?	?	2·48	14·22	19·16	8·44	—	0·35	—	44·95?
	Nanihat	0·20	0·05	0·02	0·02	0·29	5·59	8·21	11·84	1·20	0·65	0·44	—	28·51
CHUTIA NAGPORE.														
Hazaribagh...	Pachamba (*Giridi*) ..	0·64	0·30	—	0·25	2·71	2·00	16·73	23·78	5·88	4·15	0·13	—	56·66
	Hazaribagh	1·64	0·44	0·07	—	0·73	1·62	20·76	25·08	5·16	1·03	0·14	—	56·67
	Semtagurah	1·42	0·45	0·08	—	0·42	0·72	22·63	21·56	7·13	1·54	0·84	—	56·78
	Mahuai Hills ...	2·76	0·67	—	—	0·08	2·97	12·67	25·21	10·61	2·55	0·22	—	57·74
	Jhecomra Hills ...	0·90	0·60	—	—	—	2·00	15·35	37·50	6·00	0·70	—	—	63·65
	Barhi	1·13	—	—	—	0·06	1·67	21·93	21·80	3·05	1·04	0·10	—	51·08
	Chatra	2·08	0·19	0·13	—	0·05	2·60	23·23	19·44	7·45	0·99	—	—	56·23
	Karagdeha	0·30	—	—	0·80	0·40	3·14	13·97	22·92	11·40	—	—	—	52·93
	Ramghar	0·40	0·80	—	—	1·35	2·75	11·76	24·09	5·06	1·95	—	—	48·16
Lohardugga	Lohardugga . .	2·60	0·89	0·42	0·02	1·08	2·87	15·89	17·42	8·21	0·35	0·65	—	50·40
	Ranchee	1·20	0·75	—	—	2·57	3·05	18·98	20·70	7·88	0·35	0·14	—	55·63
	Palamow	1·82	0·63	—	—	0·23	3·48	19·13	20·65	7·88	—	0·10	—	53·90
	Silli	?	?	?	?	?	?	8·78?	29·70	5·90	—	—	—	44·38?
	Balumat	1·20	1·20	—	?	?	?	18·00	15·82	6·84	—	—	—	43·06?
	Hosseinabad . ..	0·23	—	0·09	—	—	?	?	?	4·32	-	1·09	—	5·73?
	Garwah	1·75	0·19	—	—	—	2·51	18·18	22·07	3·72	0·20	—	—	48·62
Singbhoom ...	Chyebassa	1·66	1·75	—	0·13	2·40	3·04	22·06	17·25	5·32	0·05	0·65	—	44·31
	Chakradharpore	2·24	1·99	0·14	0·13	2·20	3·00	23·12	?	10·92	—	0·50	—	44·63?
	Ghatsilla	1·39	0·91	—	0·15	2·59	3·40	23·14	18·17	8·31	0·28	—	—	58·34
	Baharagura	0·62	1·89	—	1·36	4·72	7·73	18·47	21·83	5·80	—	—	—	62·43
Manbhoom ...	Purulia	1·23	1·19	—	0·64	2·19	4·17	20·47	20·97	9·13	0·05	0·66	0·08	60·78
	Gobindpore	0·18	0·42	0·36	0·05	1·47	2·26	10·69	14·78	5·44	1·12	0·54	—	37·61
	Raghunathpore	0·57	1·21	—	0·82	2·30	2·87	16·19	24·02	7·44	1·20	0·05	—	56·67
	Barrabhoom	1·21	1·18	—	0·09	2·84	2·76	18·91	21·87	4·79	0·69	0·13	—	53·87
	*Jhalda**	—	1·32	—	—	0·81								
	*Chas**	0·81	0·61	0·13	0·30	1·54								

* Through misconceptions and owing to change of officers the rainfall reports were not submitted from Jhalda and Chas.

METEOROLOGICAL OFFICE, BENGAL,
The 12*th February* 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Government of Bengal.

II.—Table showing the Monthly and Annual Average Rainfall at 168 Rainfall-recording Stations in Bengal.

DISTRICT.	STATION.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
ORISSA.															
POOREE	Pooree	31—34	0·26	1·10	0·57	0·86	2·66	7·56	0·91	10·93	9·95	8·05	2·10	0·73	54·68
	Khurdah	18—19	0·27	0·72	0·82	0·88	3·34	9·10	12·85	12·58	10·36	6·60	1·81	0·50	59·31
	Banpur	9—10	0·10	1·06	0·79	0·71	2·15	7·12	10·57	11·85	9·34	5·89	1·98	1·29	52·85
	False Point	21—22	0·58	0·88	1·16	2·19	3·03	8·92	14·15	13·60	11·14	10·27	2·28	0·61	69·44
CUTTACK	Jagatsingpore	16—18	0·35	0·61	0·81	0·72	2·76	7·54	10·98	11·37	8·61	6·47	1·34	0·39	51·95
	Banki	6—7	0·26	0·65	1·50	0·14	2·16	9·82	12·05	9·48	9·75	4·06	1·33	0·81	52·31
	Cuttack	28—31	0·40	0·56	1·20	1·41	3·27	10·50	12·40	11·64	9·70	5·45	1·07	0·48	58·08
	Kendrapara	18	0·44	0·73	0·87	1·06	3·94	8·52	11·79	13·[illegible]4	9·14	5·94	0·95	0·48	57·10
	Jajpore	16—18	0·43	1·31	1·13	1·81	4·35	9·52	13·19	11·74	9·94	5·12	0·75	0·71	60·00
BALASORE	Chandbali	15—16	0·48	1·02	1·09	1·02	4·80	7·33	11·83	11·90	11·04	6·07	1·55	0·59	58·80
	Bhuddruck	18—19	0·39	1·32	1·38	1·99	5·17	8·68	12·09	11·22	10·50	4·43	0·99	0·37	58·53
	Soorah	15—16	0·25	0·84	1·63	1·83	4·99	6·59	11·95	11·45	11·13	5·24	0·85	0·13	56·88
	Balasore	29—30	0·73	1·27	1·70	3·00	4·97	9·87	11·89	12·78	12·63	6·61	1·05	0·24	66·71
	Jellasore	15—16	0·72	1·02	0·99	1·41	3·64	7·71	16·10	11·35	10·48	4·34	0·42	0·11	57·29
	Baripoda	10	0·31	0·70	1·32	1·36	4·97	9·79	13·05	12·30	11·68	3·82	0·65	0·22	60·17
SOUTH-WEST BENGAL.															
MIDNAPORE	Contai	20—22	0·31	1·38	1·17	1·51	4·42	10·32	14·41	14·22	11·74	8·03	1·02	0·34	65·93
	Saugor Island	21—22	0·34	1·17	1·35	1·31	4·47	10·86	15·08	16·01	12·56	9·06	0·81	0·29	74·21
	Tumlook	18	0·38	1·16	1·77	1·64	4·80	8·02	12·25	14·56	8·35	4·19	0·19	0·26	58·15
	Midnapore	23—25	0·72	0·84	1·41	1·64	5·32	9·52	13·90	12·52	8·19	4·0[illegible]	0·32	0·28	59·58
	Ghattal	12—13	0·51	0·89	1·02	1·81	5·14	9·79	13·62	16·05	8·98	3·32	0·15	0·27	62·15
	Garbeta	7—9	0·60	1·00	1·65	2·30	4·18	6·70	13·50	11·96	9·32	2·64	0·40	0·21	57·46
24-PERGUNNAHS.	Diamond Harbour	18—19	0·64	1·68	1·44	2·32	4·99	9·35	14·53	15·00	11·01	5·05	0·38	0·27	66·66
	Alipore Jail	18—19	0·71	1·47	1·69	1·81	5·29	9·79	13·37	14·22	9·99	4·30	0·12	0·33	63·39
	Barrackpore	18—19	0·45	1·27	1·72	1·81	5·17	8·89	12·49	12·57	7·41	3·33	0·59	0·50	56·03
	Dum-Dum	18—19	0·52	1·12	1·57	2·03	5·91	9·60	12·18	13·40	8·79	4·28	0·29	0·30	59·90
	Baraset	18—19	0·59	1·29	1·57	2·04	5·[illegible]5	9·69	11·24	12·51	9·02	4·36	0·86	0·29	58·80
	Busseerhat	18—19	0·42	1·04	2·18	2·13	6·39	10·69	12·82	13·25	8·70	4·23	0·37	0·22	62·44
HOWRAH	Howrah	20—21	0·59	1·26	1·88	2·03	5·08	10·67	12·60	13·84	9·10	4·13	0·41	0·27	61·36
	Mohesreka (*Ooloobeeriah*)	13—14	0·51	1·44	1·18	1·47	6·03	8·64	13·48	14·90	8·33	3·33	0·45	0·30	60·06
HOOGHLY	Serampore	17—18	0·42	1·24	1·39	2·00	4·96	9·52	13·13	12·06	7·90	4·10	0·40	0·27	58·29
	Hooghly	24—25	0·45	1·58	1·77	2·71	5·64	10·39	12·22	13·00	7·63	3·9[illegible]	0·40	0·28	59·80
	Jehanabad	17—18	0·39	1·27	1·15	1·91	5·07	9·29	12·88	16·35	9·62	1·16	0·26	0·19	62·54
BURDWAN	Culna	18—19	0·46	1·08	1·39	2·39	4·78	8·36	11·26	12·06	6·51	3·74	0·58	0·21	52·85
	Burdwan	28—29	0·34	0·77	1·30	2·23	5·05	9·37	12·3[illegible]	12·38	8·26	4·10	0·57	0·17	57·19
	Cutwa	18—19	0·45	1·16	1·29	1·80	5·37	9·90	10·49	12·63	8·20	3·85	0·31	0·10	5[illegible]·60
	Raneegunge	19	0·33	1·19	0·65	1·26	3·09	8·13	14·[illegible]	13·91	7·14	3·24	0·21	0·12	53·86
BANKOORA	Bankoora	31—34	0·37	1·08	1·41	1·61	3·42	9·68	12·78	12·[illegible]6	8·7[illegible]	4·[illegible]2	0·15	0·17	56·41
	Bishenpore	9—10	0·38	0·68	1·33	1·66	4·97	9·47	12·06	1[illegible]·94	9·05	2·10	0·05	0·[illegible]3	58·23
	Malaura	8—9	0·32	0·59	0·71	0·93	3·31	8·58	14·37	14·50	6·19	5·12	0·56	0·25	53·51
	Khatra	8—9	0·55	0·52	1·29	0·71	3·47	10·26	15·18	11·38	9·6[illegible]	5·89	0·58	0·16	60·98
	Raipur	9—10	0·36	0·86	1·25	0·84	4·28	7·77	11·48	17·41	9·52	3·31	0·33	0·22	57·49
BEERBHOOM	Bh. Soory	26—29	0·46	0·92	0·67	0·94	3·29	10·10	1[illegible]·61	13·17	9·77	3·59	0·16	0·16	55·88
	Hetampore	13—14	0·5[illegible]	0·97	0·45	1·13	3·28	10·92	14·34	15·15	10·[illegible]3	[illegible]	0·20	0·1[illegible]	58·08
	Rampore Haut	16	0·53	0·84	0·71	1·52	3·47	9·35	11·13	1[illegible]·5[illegible]	11·22	[illegible]·69	0·26	0·18	56·15
NUDDEA	Ranaghat	18—19	0·16	0·93	1·32	2·99	5·08	9·10	10·88	13·00	6·95	3·64	0·60	0·22	55·17
	Kishnaghur	25—28	0·42	1·02	1·25	2·47	6·44	9·52	10·52	11·29	7·81	4·53	0·40	0·15	5[illegible]·65
	Choondanga	18—19	0·31	1·11	1·88	2·83	7·85	8·96	10·09	12·50	9·81	1·35	0·50	0·15	60·37
	Meherpore	18—19	0·39	1·02	2·16	2·93	5·98	9·36	10·11	12·60	7·92	3·51	0·20	0·18	56·28
	Kooshtea	19	0·38	1·11	1·87	3·01	7·06	10·56	11·02	11·96	9·96	1·73	0·26	0·19	62·11
KHOOLNA	Satkira	18—19	0·40	0·93	2·56	2·93	5·93	10·05	1[illegible]·41	1[illegible]·38	8·71	4·15	0·40	0·34	64·49
	Baguhat	17—18	0·69	1·31	1·82	3·46	6·60	12·73	11·86	12·86	9·70	5·03	0·63	0·27	6[illegible]·86
	Khoolna	17—18	0·60	1·23	2·20	3·21	6·33	12·51	12·09	12·24	9·58	1·07	0·42	0·32	64·83
JESSORE	Narail	17—18	0·68	1·16	1·94	3·22	6·56	10·82	9·09	10·53	7·08	3·14	0·50	0·23	51·9[illegible]
	Jessore	29—34	0·51	0·85	2·11	4·44	7·10	15·15	11·70	11·76	9·26	5·36	0·87	0·19	67·61
	Jhenidah	17—18	0·34	1·10	2·19	3·38	6·47	12·15	9·75	1[illegible]·55	8·71	4·58	0·33	0·17	62·00
	Magoora	17—18	0·31	1·05	2·58	3·96	7·78	11·65	10·28	9·97	7·94	3·75	0·29	0·16	5[illegible]·72
	Bongong	19	0·33	1·10	1·79	2·74	5·64	9·62	11·20	12·97	8·34	4·60	0·54	0·34	59·01
MOORSHEDABAD.	Kandi	13—14	0·42	0·85	0·97	1·66	4·40	9·36	12·62	4·75	8·87	3·70	0·42	0·[illegible]5	55·27
	Berhampore	34—36	0·44	0·95	1·15	1·92	4·87	9·18	10·39	10·91	9·63	5·20	0·53	0·17	5[illegible]·59
	Lalbagh	18	0·50	0·80	0·89	1·21	4·31	8·80	10·63	12·71	10·12	4·[illegible]6	0·39	0·10	5[illegible]·22
	Azimgunge	16—17	0·50	0·76	0·93	1·32	4·66	8·90	10·71	12·68	9·53	4·92	0·25	0·13	[illegible]
	Jungipore	18	0·44	10·71	0·55	1·20	4·82	8·53	10·97	11·79	10·61	3·11	0·11	0·14	[illegible]·19
	Lalgola	15—16	0·61	0·65	0·86	1·31	5·40	9·04	11·24	11·47	9·71	4·15	0·22	0·14	54·84
EAST BENGAL															
CHITTAGONG	Cox's Bazar	18—19	0·77	0·49	1·82	2·53	10·38	33·09	41·31	28·06	14·71	7·88	2·34	0·36	143·94
	Chittagong	30—34	0·51	1·19	1·91	4·62	9·19	22·93	22·13	21·19	13·75	5·96	1·59	0·57	105·57
CHITTAGONG HILL TRACTS.	Rangamati	20	10·56	1·14	2·94	4·01	9·89	18·02	18·78	18·94	12·56	6·85	1·73	0·53	95·97
	Ruma	10—11	0·75	0·57	2·54	3·60	8·88	19·88	15·7[illegible]	15·55	12·38	7·40	2·07	0·55	89·92
BACKERGUNGE	Patuakhally	16—17	0·77	1·13	1·81	3·04	7·97	21·44	22·13	17·05	12·85	6·11	1·56	0·15	97·21
	Perozopore	18—19	0·71	1·30	1·61	2·65	6·76	15·98	16·46	15·13	11·15	5·49	1·15	0·27	78·0[illegible]
	Burrisal	23—24	0·69	0·96	2·38	3·61	7·60	16·51	16·78	13·[illegible]	11·44	4·78	1·41	0·25	79·30
	Bhola	11—12	0·59	0·82	2·52	3·59	6·81	20·19	18·16	19·08	11·81	6·26	1·50	0·47	91·90
NOAKHOLLY	Noakholly	30—32	0·54	0·87	2·85	4·31	9·44	23·67	21·36	23·22	16·32	7·68	1·75	0·57	112·48
	Fenny	12—13	0·79	1·19	3·99	4·77	10·50	26·23	23·64	24·59	16·01	6·14	2·98	0·84	121·67
FURREEDPORE	Madaripore	18—19	0·61	0·97	2·83	3·62	8·82	13·09	12·59	12·20	8·30	4·02	0·51	0·13	67·69
	Furreedpore	22	0·34	1·29	2·78	4·07	8·43	12·55	12·67	12·21	9·39	4·32	0·48	0·12	68·95
	Goalundo	17—18	0·40	1·22	2·33	3·93	7·43	11·07	11·89	11·54	8·11	4·60	0·33	0·13	62·98
DACCA	Munshigunge	16—17	0·54	1·35	3·05	4·82	9·05	16·17	16·12	14·72	12·20	5·24	0·85	0·31	85·32
	Dacca	38—40	0·30	1·01	2·63	5·81	9·03	13·00	12·96	12·39	9·95	5·09	0·67	0·21	73·05
	Naraingunge	5—6	0·31	1·18	3·72	5·11	7·63	13·10	15·61	11·45	10·7[illegible]	3·87	[illegible]	0·34	73·40
	Manickgunge	16—17	0·44	1·15	1·39	3·97	8·06	9·62	12·11	11·71	7·88	3·78	0·31	0·12	61·82
HILL TIPPERAH	Agartola	16—17	0·83	1·12	4·86	5·28	11·00	14·21	11·65	13·77	10·15	4·15	0·92	0·39	78·[illegible]1
TIPPERAH	Comilla	31—32	0·60	0·89	3·07	6·53	10·37	18·34	17·90	16·77	11·45	5·21	[illegible]	0·25	92·65
	Chandpore	10—11	0·52	0·88	3·54	4·64	9·12	17·21	15·47	20·11	11·82	6·06	0·36	0·40	90·35
	Brahmunboria	18—19	0·77	1·30	4·68	5·06	11·02	15·53	11·17	12·96	11·61	4·69	0·55	0·26	79·60
MYMENSINGH	Kishoregunge	18—19	0·57	0·86	3·01	5·00	10·85	18·86	12·03	13·12	12·24	5·18	0·12	0·30	8[illegible]
	Atia (*Tangail*)	18—19	0·30	1·18	1·45	3·51	6·89	12·77	11·17	11·96	9·17	4·90	0·2[illegible]	0·09	64·[illegible]
	Mymensingh	27—29	0·35	1·19	2·23	5·44	12·02	20·59	16·09	14·52	14·63	5·19	0·72	0·12	[illegible]
	Jamalpore	18—19	0·45	1·07	1·46	3·20	9·12	15·24	12·47	13·71	15·70	4·56	0·29	0·26	75·87
	Netrokona	6—7	0·11	0·64	2·05	3·55	11·62	18·39	13·57	15·92	13·[illegible]6	6·05	0·03	0·17	86·62

District.	Station.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
NORTH BENGAL.															
Pubna	Pubna	25—27	0·39	1·13	1·77	3·11	6·81	11·54	10·71	12·67	11·06	4·57	0·33	0·11	64·20
	Serajgunge	18—19	0·45	1·01	1·33	2·78	7·83	11·10	10·95	11·22	9·48	4·29	0·37	0·14	60·95
Bogra	Sherpore	12—13	0·35	0·90	1·48	1·54	8·47	11·71	12·71	12·29	9·94	3·95	0·61	0·22	64·17
	Nowkhilla	12—13	0·36	0·85	1·21	1·99	7·79	12·64	11·47	10·80	9·42	4·76	0·34	0·16	61·99
	Bogra	26—29	0·43	0·97	0·88	3·27	8·79	15·09	15·83	12·26	11·76	4·53	0·76	0·12	74·[illegible]
	Panchbibi	12—13	0·32	0·52	0·90	1·60	7·65	11·03	12·40	11·43	10·41	3·99	0·06	0·18	60·40
Rajshahye	Beauleah	30—34	0·29	0·89	1·23	1·73	5·59	10·51	11·49	10·74	10·85	4·77	0·27	0·08	58·44
	Nattore	18—19	0·60	0·89	0·93	2·17	6·79	9·98	12·20	12·32	11·73	4·26	0·26	0·11	62·24
Maldah	Maldah	31—33	0·64	0·73	0·85	1·35	3·87	9·83	10·74	10·[illegible]7	10·78	4·23	0·21	0·33	53·83
	Chanchal	11—13	0·51	0·66	0·45	1·01	4·80	11·05	12·27	13·78	10·25	3·02	0·26	0·07	58·73
Dinagepore	Mohadebpore	10—11	0·30	0·52	0·77	1·09	6·80	12·14	11·01	13·21	11·34	3·03	0·10	0·17	60·48
	Churamon	9—10	0·36	0·33	0·48	0·69	5·15	12·01	11·72	10·96	12·00	2·64	0·15	0·15	56·64
	Raigunge	12—13	0·57	0·50	0·62	1·12	6·39	13·74	12·69	12·55	10·[illegible]	3·50	0·10	0·14	62·33
	Dinagepore	29—31	0·28	0·57	0·70	2·27	7·93	16·84	14·99	13·21	12·62	4·72	0·22	0·10	74·54
	Baloorghat	7	0·29	0·26	0·66	1·08	6·50	11·51	10·27	9·43	9·54	3·25	0·09	0·25	53·13
Rungpore	Bhawanigunge (*Gyabanda*).	18	0·34	0·51	1·46	2·73	9·11	15·69	11·91	10·29	11·67	4·83	0·13	0·16	68·83
	Rungpore	28—32	0·44	0·38	1·15	3·08	10·67	21·03	15·77	13·00	13·06	4·76	0·30	0·12	93·76
	Kungram	13—14	0·51	0·31	1·93	4·79	13·58	24·01	13·37	10·86	12·71	4·18	0·22	0·23	86·70
	Bagdogra (*Nilphamari*) ...	12—14	0·50	0·52	1·18	3·43	11·87	25·33	13·58	15·17	14·83	3·89	0·08	0·19	90·57
Julpigoree	Julpigoree	19—20	0·54	0·30	1·89	3·96	11·18	29·12	26·06	25·91	23·59	5·25	0·10	0·08	128·28
Cooch Behar	Dinhatta	12—13	0·54	0·34	1·81	4·48	14·37	31·23	16·19	15·70	21·20	4·74	0·05	0·19	110·84
	Cooch Behar	17—18	0·43	0·29	1·93	5·16	14·57	36·62	22·35	21·04	21·46	5·21	0·11	0·10	129·56
	Mekligunge	12—13	0·27	0·28	1·39	4·79	13·01	27·51	21·24	22·02	22·89	4·21	0·05	0·16	117·82
	Matabhanga	12—13	0·34	0·29	2·20	4·54	12·96	32·23	21·18	22·35	22·72	5·24	0·05	0·12	124·35
Darjeeling Hill	Buxa	19—20	1·12	0·92	3·16	8·79	20·93	44·19	47·68	43·60	31·85	9·96	0·50	0·57	213·27
	Siliguri	5—6	0·68	0·13	1·63	3·37	9·62	24·76	25·26	22·35	14·07	4·54	0·16	0·11	106·68
	Darjeeling	28—31	0·69	1·14	2·28	3·93	7·57	24·02	30·36	26·67	17·42	6·10	0·22	0·21	120·31
	Kalimpong	7	1·06	0·63	1·75	3·05	6·09	17·63	22·12	21·18	10·60	4·23	0·26	0·30	88·90
NORTH BEHAR.															
Purneah	Kissengunge	17—18	0·62	0·44	0·66	1·87	6·42	15·30	16·49	15·71	13·79	3·13	0·07	0·14	74·73
	Arrareah	16—18	0·51	0·53	0·62	1·50	5·77	12·99	16·18	13·50	13·28	3·34	0·06	0·09	68·38
	Purneah	18—19	0·47	0·55	0·40	1·40	4·49	10·86	14·13	14·40	13·47	3·76	0·08	0·15	64·16
North Bhagulpore	Maddapore	18—19	0·47	0·56	0·39	1·03	4·31	8·33	12·01	11·86	10·29	4·32	0·06	0·08	53·71
	Soopool	17—18	0·47	0·39	0·40	0·88	3·98	8·97	11·34	11·88	9·40	2·72	0·05	0·12	50·60
Durbhunga	Tajpore	18	0·64	0·38	0·23	0·32	2·27	7·46	12·31	10·49	8·00	3·00	0·10	0·08	45·28
	Durbhunga	18	0·52	0·43	0·29	0·69	2·64	7·84	12·02	11·14	9·[illegible]	2·82	0·06	0·17	47·93
	Madhubani	17—18	0·74	0·41	0·37	1·06	3·05	8·45	10·84	10·47	9·90	2·48	0·03	0·07	47·85
Mozufferpore	Sitamarhi	18	0·53	0·30	0·65	1·18	2·64	7·84	10·87	9·52	9·25	2·65	0·01	0·12	45·56
	Mozufferpore	30—33	0·89	0·50	0·16	0·52	2·36	6·81	10·94	10·25	8·93	2·87	0·08	0·08	43·99
	Hajipore	17—18	0·65	0·46	0·38	0·19	2·03	6·54	12·21	10·64	7·10	3·76	0·14	0·12	44·23
Chumparun	Motihari	29—31	0·47	0·28	0·51	0·64	2·44	8·25	10·96	12·23	8·69	3·56	0·08	0·15	48·26
	Bettiah	17—18	0·69	0·41	0·36	0·75	2·66	8·35	12·99	12·12	9·32	3·58	0·01	0·23	51·27
Surun	Gopalgunge	9—11	0·59	0·41	0·12	0·24	2·71	6·42	12·80	10·75	6·93	5·01	0·11	0·17	46·26
	Sewan	18—19	0·75	0·48	0·23	0·27	1·80	6·66	11·68	10·89	8·83	3·81	0·11	0·14	45·65
	Chuprah	33—36	0·71	0·43	0·38	0·38	1·44	6·17	10·85	9·35	7·21	2·93	0·21	0·09	40·15
SOUTH BEHAR.															
Shahabad	Buxar	20—21	0·79	0·32	0·27	0·16	0·99	4·76	11·07	10·06	7·43	3·20	0·14	0·21	39·40
	Dehree	5—6	0·77	0·07	0·60	0·12	1·65	3·20	11·65	11·19	7·78	2·98	0·23	0·66	41·20
	Bhuboosh	18—19	0·68	0·49	0·56	0·14	1·12	5·08	12·37	12·00	6·70	3·11	0·50	0·35	43·08
	Sasseram	18—19	0·50	0·48	0·30	0·17	1·12	5·00	11·58	12·25	6·9[illegible]	3·48	0·24	0·28	42·35
	Arrah	30—33	0·83	0·54	0·49	0·60	1·53	6·45	12·62	10·35	8·35	2·94	0·21	0·14	44·95
Gya	Aurungabad	17—19	0·61	0·34	0·38	0·23	1·63	5·21	12·39	12·98	7·15	2·64	0·23	0·36	44·15
	Gya	27—29	0·73	0·50	0·42	0·32	1·25	6·13	11·81	10·61	7·15	2·34	0·24	0·19	41·69
	Nowadah	18—19	0·70	0·46	0·47	0·30	1·91	5·36	11·87	11·48	6·84	2·50	0·18	0·22	42·29
	Jehanabad	16	0·72	0·40	0·35	0·15	1·65	4·91	12·23	12·90	6·72	3·33	0·27	0·18	42·81
Patna	Patna	33—35	0·69	0·47	0·34	0·27	1·74	6·72	10·60	10·00	7·87	2·81	0·23	0·16	41·00
	Dinapore	18—19	0·59	0·30	0·18	0·23	1·65	6·40	11·71	11·50	6·62	3·00	0·14	0·18	42·50
	Behar	18—19	0·67	0·52	0·34	0·22	2·16	6·17	13·04	11·33	6·38	3·06	0·26	0·13	41·28
	Barrh	18—19	0·47	0·43	0·34	0·12	2·32	4·88	12·73	9·80	7·88	3·03	0·25	0·12	42·37
Monghyr	Beegooserai	18—19	0·56	0·53	0·24	0·36	2·35	6·01	11·39	10·33	7·20	3·00	0·31	0·08	42·15
	Monghyr	34—37	0·45	0·64	0·43	0·45	2·12	6·59	11·72	10·72	8·44	3·81	0·26	0·10	45·73
	Jamui	17—19	0·71	0·60	0·43	0·50	2·13	6·35	12·30	12·14	7·29	2·53	0·09	0·09	45·16
South Bhagulpore	Bhagulpore	34—35	0·50	0·64	0·39	0·84	2·67	8·14	11·56	10·80	7·92	3·93	0·22	0·09	47·70
	Banka	18—19	0·59	0·50	0·34	0·56	2·57	7·50	10·42	11·55	8·03	3·43	0·15	0·14	45·78
Sonthal Pergunnahs	Rajmehal	17—19	0·19	0·46	0·33	1·04	4·93	10·02	12·91	10·63	11·86	3·03	0·23	0·06	55·69
	Godah	16—17	0·35	0·54	0·40	0·49	3·55	6·70	11·21	11·05	9·53	2·94	0·10	0·13	47·89
	Pakour	10—11	0·30	0·66	0·62	0·18	4·92	10·66	12·87	13·46	12·54	4·17	0·10	0·15	60·92
	Nya Doomka	18	0·55	0·68	0·72	1·05	3·63	8·79	13·40	14·07	10·27	3·88	0·23	0·23	57·59
	Deoghur	19—20	0·43	0·63	0·08	0·80	3·01	8·12	13·64	12·37	8·54	4·36	0·15	0·16	52·89
	Jamtara	13—15	0·45	0·50	0·77	0·61	3·39	7·90	13·54	13·24	7·83	3·03	0·30	0·14	51·70
CHUTIA NAGPORE.															
Hazaribagh	Pachamba (*Giridi*) ...	18—19	0·39	0·69	0·65	0·64	2·25	7·84	13·29	12·04	8·66	3·21	0·20	0·17	50·93
	Hazaribagh	27—29	0·55	0·74	0·69	0·35	1·72	7·94	13·01	13·14	7·82	3·29	0·32	0·22	49·79
	Semtagurah	10—11	0·49	0·50	1·25	0·22	2·72	7·70	12·85	12·81	8·08	2·93	0·32	0·32	50·22
	Mahudi Hills	9—11	0·80	0·61	0·81	0·07	2·21	6·58	12·42	14·09	8·91	2·55	0·46	0·30	50·41
	Jhoomra Hills	7—8	0·45	0·23	0·73	Nil	3·16	9·78	17·30	17·85	11·31	3·24	0·26	0·33	64·64
Lohardugga	Lohardugga	5	1·10	0·32	0·62	0·13	2·89	7·67	13·01	13·68	9·67	2·31	0·51	0·61	52·52
	Ranchee	31—33	0·79	1·02	1·30	0·62	2·36	7·64	12·42	12·27	8·10	3·05	0·29	0·21	50·16
	Palamow	18—19	0·77	0·50	0·65	0·29	1·35	5·91	12·91	12·03	7·05	2·66	0·48	0·28	46·73
Singbhoom	Chyebassa	19—20	0·73	0·84	1·21	0·68	3·82	8·01	14·00	13·78	8·38	2·94	0·24	0·35	54·98
Manbhoom	Purulia	24—26	0·42	0·94	0·89	0·81	2·76	8·77	11·44	12·96	7·80	3·60	0·18	0·26	50·83
	Gobindpore	17—18	0·57	0·88	0·44	0·63	2·00	7·00	11·87	12·49	7·22	4·00	0·12	0·19	47·35

METEOROLOGICAL OFFICE, BENGAL;
The 12th February 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Government of Bengal.

III.—Comparison Table of the Rainfall of 1888 *at* 168 *Rainfall-recording Stations in Bengal with the Average of previous years.*

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ORISSA.														
Pooree	Pooree	+0·93	+0·79	−0·51	−0·86	+1·40	−5·48	−6·40	+3·54	−3·18	−5·58	+5·56	−0·73	−10·47
	Khurdah	+0·40	−0·52	−0·78	−0·66	−2·01	−5·57	−4·91	+2·60	−0·09	−6·00	+3·90	−0·50	−14·02
	Banpur	+0·10	−0·47	−0·65	−0·26	−1·24	−3·97	−3·81	+1·67	−2·27	−3·50	+1·51	−1·29	−14·07
	False Point	+3·16	+0·61	−1·08	−2·11	−2·38	−6·31	+2·72	+4·63	−2·21	−7·13	+0·93	−0·64	−9·81
Cuttack	Jagatsingpore	+1·66	+0·68	−0·51	−0·72	−1·40	−4·69	−0·76	+20·65	−1·82	−5·38	+0·60	−0·39	+7·86
	Banki	+0·40	+0·02	−1·45	−0·04	−1·22	−4·92	−2·42	+8·28	−2·25	−2·81	+0·44	−0·81	−6·78
	Cuttack	+0·44	+0·61	+0·93	−1·41	−0·17	−9·47	−3·52	+13·77	+0·53	−4·04	+1·75	−0·48	−1·81
	Kendrapara	+0·88	+1·67	−0·13	−1·06	−0·16	−5·95	−5·04	+11·45	−3·92	−5·39	+1·18	−0·48	−7·25
	Jajpore	+0·62	+0·41	−0·90	−1·81	−1·16	−7·10	−1·34	+16·60	+1·08	−3·07	+1·74	−0·71	+1·36
Balasore	Chandbali	+2·02	+0·28	−1·09	−1·02	−1·49	−6·72	−0·97	+12·60	−2·24	−5·77	+1·53	−0·58	−3·45
	Bhuddruck	+1·08	+1·54	−0·08	−0·04	+0·06	−6·11	−0·95	+7·26	−2·69	−3·22	+1·08	−0·37	−3·34
	Soroh	+0·10	+1·65	−0·81	+0·50	+1·45	−2·87	−2·8	+6·42	−1·62	−3·66	+2·26	−0·13	+0·48
	Balasore	+1·12	+2·95	−0·89	−1·15	+0·48	−8·52	−1·76	+8·08	+4·19	−4·53	−0·62	−0·24	−0·80
	Jellasore	+0·64	−0·15	−0·53	+0·80	+4·12	−3·82	−0·81	+7·92	−0·12	−4·34	+0·36	−0·11	+4·05
	Barripodah	+0·10	+1·62	−1·01	−0·53	+1·46	−5·78	+1·11	+6·09	−2·06	−3·15	+0·86	−0·20	−1·[illegible]
SOUTH-WEST BENGAL.														
Midnapore	Contai	+0·05	+2·02	−0·80	+0·09	−0·64	−9·39	−3·46	+11·83	−2·11	−7·16	+2·41	−0·34	−7·50
	Saugor Island	+0·46	+1·80	−1·06	−0·33	−1·51	−9·77	−6·46	+13·34	−0·33	−7·02	+0·09	−0·29	−17·08
	Tumlook	+0·45	+0·94	−0·87	+0·36	−2·30	−4·72	+4·65	+12·84	+4·07	−2·79	0·19	−0·46	+12·18
	Midnapore	+0·16	+0·98	−1·21	+1·19	+0·03	−5·90	+8·44	+10·95	−0·63	−2·17	−0·13	−0·28	+11·13
	Ghattal	+0·38	+0·16	−0·62	+1·20	−2·81	−3·51	−1·10	+7·06	+2·49	−3·05	+0·51	−0·27	+0·42
	Garbetta	+0·48	+0·17	−1·19	+1·06	−2·85	−1·04	+0·94	+14·82	−2·56	−2·42	−0·40	+0·04	+13·62
24-Pergunnahs	Diamond Harbour	+0·80	+2·32	−1·14	+0·87	−2·80	−8·07	−4·93	+16·12	−2·22	−1·54	+0·31	−0·27	−0·55
	Alipore Jail	+0·65	+0·24	+0·96	+2·15	−1·50	−6·19	−1·24	+13·23	+0·84	−1·78	+1·88	−0·33	+8·61
	Barrackpore	+0·74	+0·02	−1·18	+2·19	−1·23	−2·72	+5·95	+9·07	−0·49	−1·63	+2·29	−0·30	+12·71
	Dum-Dum	+0·72	+0·62	−0·18	+2·45	−0·46	−6·31	+5·01	+12·86	−1·37	−1·41	+1·15	−0·[illegible]	+12·79
	Baraset	+0·20	+1·95	−0·10	+4·73	−3·30	+0·02	+6·26	+10·32	−0·26	−2·60	+1·25	−0·29	+18·[illegible]
	Busseerhat	+0·21	+0·33	−1·10	+3·00	−4·67	−2·31	+4·02	+3·14	−2·37	−3·19	+0·24	−0·22	−2·92
Howrah	Howrah	+0·78	+0·18	−0·69	+1·62	−0·06	−6·05	+0·27	+15·48	−0·10	−1·76	+2·64	−0·27	+11·64
	Mohesreka (*Ooloobariah*)	+1·01	+0·19	−0·47	+1·64	−2·61	−5·06	−0·92	+17·31	−5·52	−1·51	+0·10	−0·30	+5·86
Hooghly	Serampore	+0·64	+0·14	−0·81	+1·07	−1·23	−3·72	+6·80	+10·36	−0·08	−1·58	+3·24	−0·27	+14·73
	Hooghly	+0·58	−0·25	−1·09	−0·13	−2·75	+1·70	−4·12	+10·9[illegible]	−1·44	−0·44	+1·52	−0·26	+12·61
	Jehanabad	+0·95	−0·22	−0·78	+0·79	−1·79	−1·49	−6·86	+5·34	−1·05	−4·10	+0·24	−0·19	+4·56
Burdwan	Culna	+1·35	−0·03	−0·26	−0·78	−1·57	−1·19	+9·12	+10·55	−1·90	−3·21	+3·21	−0·21	+15·08
	Burdwan	+1·09	+0·34	−1·24	−1·06	−2·86	−4·62	+1·78	1·36	+0·38	−3·69	+2·11	−0·17	−6·6
	Cutwa	+0·01	−0·28	−0·30	−0·10	+0·98	−0·64	+4·76	+12·95	−1·75	−3·37	+1·00	−0·10	+13·16
Bankoora	Bankoora	+0·79	−0·20	−1·37	+0·11	−0·44	−1·19	+0·76	+4·11	−4·09	−2·80	+0·95	−0·17	−3·54
	Bishenpore	+1·24	+0·38	−0·98	+2·15	−2·60	−4·95	+3·01	+9·36	−2·40	2·40	0	−0·26	+2·55
	Malmra	+0·55	+0·11	−0·59	+0·17	−0·72	−1·24	+3·14	+1·67	−0·48	−2·90	+0·24	−0·23	−0·44
	Khatra	+0·79	+0·28	−1·[illegible]	−0·47	+1·04	−3·42	+1·89	+5·64	−3·37	−3·80	+0·09	+0·19	−2·52
	Raipur	+0·59	+0·27	−1·25	−0·18	−0·73	−2·24	+4·38	+8·33	−4·72	−3·34	+0·27	−0·22	+1·17
Beerbhoom	Bh. Soory	+0·09	−0·38	+0·58	+0·34	+0·05	−4·10	+2·96	+7·97	−3·27	−2·49	+1·19	−0·16	+2·78
	Hetampore	−0·15	−0·26	−0·15	−0·07	−0·29	−5·99	−1·46	+8·95	−6·71	−2·10	+1·19	−0·12	−7·44
	Rampore Haut	−0·07	−0·28	−0·71	−0·37	−0·10	−2·43	+4·51	+12·18	+3·40	−2·89	+1·48	−0·18	+14·87
	Raneegunge	+0·10	−0·22	−0·54	+0·75	−1·57	+0·59	+6·15	+6·59	−1·89	−3·13	+0·39	−0·12	+7·40
Nuddea	Ranaghat	+0·69	+0·30	+0·17	−1·04	−3·12	−4·16	+1[illegible]·89	+6·88	−0·11	−2·38	+3·85	−0·22	+13·84
	Kishnaghur	+0·19	−0087	−0·54	0·42	−4·08	−2·10	+10·69	+15·24	−1·97	+0·98	+0·71	−0·16	+18·19
	Chooadanga	−0·03	+0·11	−0·04	+0·32	−2·52	−5·05	+5·84	+9·05	−4·24	−2·63	+0·65	−0·15	+1·31
	Meherpore	+0·02	−0·15	+0·62	+0·10	+3·04	−5·46	+5·32	+5·30	−2·53	−3·11	+0·99	−0·18	+3·98
	Kooshtea	+0·11	+0·36	+1·99	+2·11	−2·29	−9·64	+2·73	−0·03	−2·49	−4·41	−0·03	−0·19	−11·78
Khoolna	Satkira	−0·34	−0·81	−2·50	+1·40	−5·54	−7·09	+1·11	−0·66	−3·23	−3·91	+0·32	−0·34	−21·59
	Bazirhat	+1·30	−0·46	−0·93	+3·33	−5·79	−5·84	+2·02	+6·74	−5·30	−3·64	−0·23	−0·27	−9·07
	Khoolna	+0·19	+0·32	+1·01	+0·68	−4·93	−7·58	−10·01	+0·82	−4·64	−1·97	−0·27	−0·52	−6·68
Jessore	Narail	+0·42	−0·37	+0·12	+0·15	−4·09	−6·60	+0·59	−1·79	−4·01	−2·24	+1·64	−0·23	−16·41
	Jessore	+0·91	+0·26	−0·24	+0·17	−4·43	−2·43	+7·87	+2·74	−1·91	−4·28	+1·50	−0·19	−0·03
	Jhenidah	+0·27	−0·22	+0·82	+0·87	−1·04	−5·16	+0·77	−2·89	−2·87	−4·21	+0·39	−0·17	−13·42
	Magoora	+0·41	−0·17	+0·62	+0·51	−2·88	2·03	−0·90	+1·73	−2·47	−1·03	+1·24	−0·16	−5·18
	Bongong	+1·04	+0·14	−0·97	+0·13	−4·35	−5·20	+10·52	−0·26	−3·33	−1·55	+0·86	−0·34	−3·31
Moorshedabad	Kandi	+0·15	−0·27	−0·72	+2·03	−1·99	−2·24	+8·06	+2·83	−4·54	−3·03	+1·35	−0·25	+1·38
	Berhampore	−0·11	+0·11	+0·05	+0·81	−1·67	−5·26	+1·50	+4·02	−4·38	−4·57	+1·70	−0·12	−7·92
	Lalbagh	−0·22	+2·09	−0·54	+1·20	−1·46	−4·19	+4·20	+0·78	−4·26	−1·94	+2·65	−0·10	−1·79
	Azimgunge	−0·18	−0·05	−0·23	+1·05	−0·71	−2·67	+6·00	−0·39	−2·81	−2·30	+1·03	−0·13	−1·39
	Jungipore	−0·12	−0·47	−0·42	0	−1·32	−4·16	−0·42	+3·56	−2·18	−0·25	+0·22	+0·16	−5·40
	Lalgola	−0·54	−0·25	−0·69	+0·84	−2·17	−2·68	−0·13	+6·69	+2·67	−3·63	+0·13	+0·06	+0·30
EAST BENGAL.														
Chittagong	Cox's Bazar	+4·58	+1·17	−0·65	+2·04	−0·20	−20·79	+19·04	+17·69	−7·03	+2·13	−2·54	−0·36	+15·98
	Chittagong	+1·85	−0·50	−0·39	+2·02	+4·22	−13·26	+7·71	+10·12	+0·79	−1·72	−1·59	−0·57	+14·68
Chittagong Hill Tracts	Rangamati	+0·85	−0·49	−0·47	+4·26	−2·98	−9·42	−6·04	+13·62	−3·43	−1·83	−1·66	−0·53	−7·12
	Ruma	+2·53	+1·18	−1·39	+1·40	+0·60	−14·47	−4·37	+14·24	−3·97	+0·03	−1·77	−0·55	−6·54
Backergunge	Patuakhally	+0·81	−0·01	−0·24	+6·03	−5·60	−14·47	+10·43	+14·42	−8·07	+1·90	−1·56	−[illegible]·15	+3·[illegible]
	Perozepore	+0·30	−0·10	+0·53	+3·65	−4·76	−7·58	+3·75	+6·71	−3·28	−4·60	−1·06	−0·27	−0·71
	Burrisal	+2·03	−0·02	−1·22	+0·32	−4·42	−10·06	+4·81	+8·04	−5·82	+4·19	−0·87	−0·25	3·27
	Bhola	+1·96	+0·34	−0·90	+3·84	−4·77	−14·27	−1·72	+8·40	−3·35	+8·24	−0·82	−0·47	−5·52
Noakholly	Noakholly	+1·44	−0·51	0	+3·70	−1·72	−14·78	+12·73	+9·23	−7·64	+9·21	−1·66	−0·37	+9·63
	Fenny	+0·66	−0·75	+0·63	+5·54	−5·10	−16·63	+11·83	+0·39	−0·01	+2·10	−2·88	−0·84	+[illegible]·04
Furreedpore	Madaripore	+0·39	−0·65	−0·45	+2·74	−5·98	−5·42	+4·13	−0·61	−3·14	−2·94	+1·14	−0·13	−10·92
	Futtehpore	+0·38	+0·28	+2·91	+2·90	−4·17	−5·14	+4·31	+2·27	−0·65	−3·51	+0·02	−0·12	−0·43
	Goalundo	0	+0·20	+1·59	+7·01	−2·27	−3·15	+0·34	+2·82	−3·19	−3·97	−0·03	−0·13	−2·78
Dacca	Munshigunge	+0·07	+0·14	+1·41	+3·55	−5·73	−4·58	+6·16	−2·58	−1·65	−3·77	+0·22	−0·31	−6·77
	Dacca	+0·65	+0·80	+2·94	+3·71	−4·04	−5·17	+3·18	+2·64	−3·04	−3·53	−0·19	−0·21	−2·26
	Narainganj	+0·20	+1·00	+2·50	+6·17	−3·27	+0·37	+7·28	+1·52	−3·59	−1·59	+0·18	−0·34	+10·43
	Manickgunge	+0·02	−0·27	+0·72	+3·61	−3·05	−3·33	+2·32	+2·98	−3·94	−2·75	−0·03	−0·12	−3·84
Hill Tipperah	Agartola	+0·57	+0·38	+2·14	+11·43	+3·33	−3·41	−2·64	+0·25	−3·27	−4·45	−0·47	−0·39	+[illegible]·47
Tipperah	Comilla	+0·20	+0·26	+0·50	+4·62	−0·98	−12·01	−4·09	+10·07	−2·88	+1·52	−0·91	−0·25	−3·9[illegible]
	Chandpore	+1·23	+0·32	+2·0[illegible]	+3·65	−0·37	−7·51	+4·51	−6·31	−3·98	−2·24	−0·56	−0·40	−1·[illegible]
	Brahmunberiah	−0·03	−0·10	+2·13	+10·82	+3·64	+1·18	−4·37	−5·32	+0·57	−1·04	−0·24	−0·26	+17·8[illegible]

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
EAST BENGAL—*concluded.*														
Mymensingh	Kishoregunge	−0·38	−0·16	−0·60	+6·78	+11·28	+0·22	−2·73	−0·80	+4·40	−1·09	+0·03	−0·30	+15·69
	Atia	−0·39	+0·10	+0·05	+1·81	−2·52	−0·48	−1·90	−0·90	−7·01	−0·20	−0·23	−0·09	−17·76
	Mymensingh	−0·20	−0·58	+0·51	+0·24	+9·47	−10·90	−6·50	+0·79	−1·79	−1·13	−0·53	−0·07	−10·78
	Jamalpore	−0·43	−0·72	−0·81	+1·37	+5·45	−4·19	+0·35	+3·78	−6·78	−3·13	+1·13	−0·26	−4·24
	Netrokona	+0·12	+0·10	+1·78	+0·74	+8·14	−2·44	+5·69	−2·94	−3·18	−3·54	+0·06	−0·17	+4·36
NORTH BENGAL.														
Pubna	Pubna	−0·21	+0·43	+0·42	+3·23	−2·74	−5·37	+4·02	−2·02	−6·41	−4·20	+0·25	−0·11	−12·71
	Serajgunge	−0·18	+0·81	+0·24	+3·11	+3·42	−5·39	−0·33	−0·47	−7·02	−2·72	−0·25	−0·04	−8·82
Bogra	Sherpore	−0·30	−0·48	−0·51	+2·15	−0·20	−8·53	−3·50	+0·38	−3·62	−2·75	+0·51	+0·01	−16·34
	Nowkhilla	−0·36	−0·30	−0·08	+1·86	+2·66	−3·07	+1·22	−0·04	−4·27	−4·25	+0·14	−0·04	−7·05
	Bogra	−0·36	−0·47	−0·72	−0·02	+1·84	−9·68	−7·95	−0·54	−6·07	−4·26	−0·28	−0·12	−28·63
	Panchbibi	−0·23	−0·28	−0·34	+4·03	+2·91	−5·42	−3·06	−1·27	−3·16	−3·91	+0·54	−0·18	−10·28
Rajshahye	Beauleah	−0·59	−0·89	−0·24	+0·43	−1·59	−7·63	−3·70	−1·53	−3·10	−2·67	−0·05	−0·08	−21·73
	Nattore	−0·60	+0·01	+0·47	+1·06	−0·57	−4·87	+6·25	+1·9[illegible]	+4·57	3·86	−0·01	−0·11	+5·14
Maldah	Maldah	−0·62	−0·54	−0·84	−1·28	−1·26	−8·44	+3·98	+11·00	−3·83	−2·43	+0·01	−0·25	−4·50
	Chanchal	−0·38	−0·50	−0·12	+0·30	−0·59	−10·13	−3·16	−3·13	−4·27	−1·84	+0·76	−0·07	−23·33
Dinagepore	Mohadebpore	−0·27	−0·14	−0·24	+0·22	−0·98	−8·42	+2·15	−1·23	−7·22	−2·18	0	−0·12	−10·43
	Churamon	−0·23	−0·10	0	+1·36	−0·43	−9·41	+0·20	+3·32	−1·01	−1·85	+1·16	−0·14	−7·13
	Raigunge	−0·36	−0·35	+0·24	+1·33	+0·71	−7·66	+5·21	−2·36	−3·09	−2·68	+0·16	−0·14	−8·99
	Dinagepore	−0·18	−0·57	−0·13	+4·38	+7·25	8·98	+3·41	−2·63	−7·72	−4·72	+0·15	−0·10	−9·87
	Baloorghat	−0·29	+0·17	+0·28	+2·48	+3·17	−5·97	−1·45	+1·18	−6·06	−2·79	+0·47	−0·25	−9·06
Rungpore	Bhawanigunge (*Gyabanda*)	−0·11	−0·31	+0·32	+2·79	+4·98	−5·19	−5·56	+0·89	−5·07	−4·83	+0·22	−0·16	−12·08
	Rungpore	−0·29	−0·29	+1·93	+1·97	+1·13	−9·38	−7·90	+0·27	5·55	−4·66	+0·67	−0·12	−22·22
	Kurigram	−0·35	0·26	+0·37	−0·04	−2·40	+6·27	−1·42	−2·76	+0·58	−3·03	+0·81	−0·23	−2·44
	Bagdogra (*Nilphamari*)	+0·12	−0·34	+1·21	+3·80	−1·90	−9·71	−0·70	−7·08	−8·36	−3·89	+0·71	−0·19	−26·03
Julpigoree	Julpigoree	+0·31	−0·15	+1·57	+4·88	−6·40	+0·61	+9·69	−5·87	−0·98	−4·00	+0·06	−0·08	−9·36
Cooch Behar	Dinhatta	+0·18	−0·23	+0·66	+1·60	−5·60	+5·46	−2·72	−7·40	−12·87	−4·39	+0·39	−0·19	−10·12
	Cooch Behar	−0·16	−0·15	+1·86	+2·58	+2·94	−3·13	0·45	−6·45	−13·32	−3·65	+0·01	−0·10	−25·52
	Mekligunge	+0·18	−0·22	+0·01	+0·73	−3·65	−2·38	+0·94	−13·99	−13·68	−3·60	+0·30	−0·16	−35·52
	Matabhanga	−0·11	−0·26	−0·10	+2·79	−7·08	−3·64	−1·62	−8·12	−17·46	−4·23	+0·10	−0·12	−39·85
Darjeeling Hill.	Buxa	−1·35	−0·36	+2·94	−0·58	−9·06	−1·54	−4·76	−13·02	−7·95	−4·13	+0·44	−0·57	−37·24
	Siliguri	−0·36	+0·08	+1·30	+2·90	−0·86	−1·03	+2·01	−9·45	−3·58	−2·30	+0·07	−0·11	−11·33
	Darjeeling	−0·07	−0·29	−1·31	−0·79	−3·69	−15·49	+9·06	−3·66	−5·42	−6·02	+0·28	−0·21	−27·61
	Kalimpong	−0·43	+0·27	+0·21	−0·21	−3·65	−9·93	+10·40	−6·64	+0·18	−4·12	+0·08	−0·30	−14·05
NORTH BEHAR.														
Purneah	Kissengunge	−0·14	−0·44	−0·01	+9·49	+1·59	−7·65	+0·98	−8·59	−7·43	−2·95	+0·43	−0·14	−15·16
	Arrareah	−0·21	−0·53	+0·88	+1·81	−2·40	−2·42	+3·31	−4·66	−5·05	−3·53	+0·36	−0·09	−12·33
	Purneah	−0·26	−0·12	+0·25	+2·08	+1·20	−9·19	+4·02	+0·85	−9·15	−3·76	+0·20	−0·15	−14·33
North Bhagulpore.	Maddapore	−0·05	−0·47	+0·85	+2·19	+4·58	−5·25	+9·36	+1·25	−0·46	−4·32	+0·19	−0·08	+7·79
	Soopool	−0·18	−0·59	+0·42	+1·34	+1·61	−5·76	+6·26	−2·12	−3·30	−2·74	+0·11	−0·12	−4·85
Durbhunga	Tajpore	−0·34	−0·58	−0·13	+0·53	−1·37	−1·99	+2·04	+2·53	−1·94	−3·00	+0·20	−0·08	−3·93
	Durbhunga	+0·08	−0·63	+0·76	+1·59	+0·77	−1·45	+2·33	−4·44	−4·95	−2·82	−0·06	−0·17	−8·79
	Madhubani	−0·30	−0·41	+0·26	+0·51	+1·23	−2·41	+4·10	−0·64	−4·25	−2·48	−0·03	−0·07	−4·49
Mozufferpore	Sitamarhi	−0·53	−0·30	−0·25	+2·77	−0·34	−2·41	+4·78	−3·83	−6·66	−2·65	+0·04	−0·12	−9·50
	Mozufferpore	−0·15	−0·50	−0·23	+1·17	1·22	+1·19	+7·17	−0·61	−4·45	−2·87	+0·20	−0·08	−0·38
	Hajipore	−0·04	−0·46	−0·35	+0·01	−0·75	−3·44	+5·72	+7·41	−2·28	−3·76	+0·18	−0·12	+2·12
Chumparun	Motihari	−0·12	−0·28	−0·51	+1·50	+0·30	−1·31	+1·34	−5·01	−1·08	−3·56	+0·15	−0·15	−9·63
	Bettiah	−0·17	−0·41	−0·06	+0·73	−0·13	−0·88	+5·17	−2·04	−0·78	−3·38	−0·01	−0·23	−3·59
Sarun	Gopalgunge	+0·10	−0·41	−0·05	+0·87	−1·50	−2·04	−1·01	+0·69	+0·25	−5·01	−0·11	−0·17	−8·39
	Sewan	+0·05	−0·48	−0·23	+0·26	−1·30	−3·62	−0·02	+2·00	+3·41	−3·81	+0·14	−0·14	−3·74
	Chuprah	+0·40	−0·13	−0·10	−0·28	−0·38	−4·08	+3·58	+2·97	−1·87	−2·93	+0·24	−0·09	−2·88
SOUTH BEHAR.														
Shahabad	Buxar	+0·36	−0·30	−0·27	−0·15	−0·12	−2·24	+1·04	+3·33	+3·82	−2·60	−0·14	−0·21	+2·52
	Dehree	+1·00	−0·07	−0·47	−0·12	−1·02	−1·16	+4·25	+3·87	+0·15	−1·62	+0·33	−0·66	+4·18
	Bhubhooah	+0·42	−0·49	−0·56	+0·06	−0·62	−3·69	+1·00	+5·13	+0·50	−3·11	+0·19	0·32	−1·61
	Sasseram	+0·50	−0·48	−0·16	−0·12	−0·89	−4·28	+2·60	+6·56	+0·18	−3·18	+0·42	−0·28	+0·57
	Arrah	+0·16	−0·54	−0·49	−0·50	−0·98	−5·68	+5·28	+7·39	−2·77	−2·51	+0·26	−0·14	−0·52
Gya	Aurungabad	+0·12	−0·34	−0·38	−0·23	−0·75	−2·90	+0·65	+8·13	−1·18	−1·93	+0·13	−0·36	+9·00
	Gya	+0·04	−0·50	−0·31	−0·31	−1·02	−3·07	−1·72	+17·98	+0·70	−1·94	+0·90	−0·19	+11·42
	Nowada	+0·80	−0·44	−0·40	−0·30	−1·82	−3·59	+3·02	+11·04	−2·44	−2·50	0	−0·22	+7·15
	Jehanabad	+0·54	−0·40	−0·35	−0·15	−1·38	−2·20	−0·16	+10·16	+0·94	−3·50	+0·32	−0·18	+3·74
Patna	Patna	+0·12	−0·47	−0·34	−0·24	−0·95	−3·89	+4·54	+7·11	−4·70	−2·81	+0·35	−0·16	−1·44
	Dinapore	+0·29	−0·30	−0·18	−0·23	−0·70	−1·79	+5·89	+1·03	−3·92	−3·00	+0·17	−0·18	+0·08
	Behar	+0·37	−0·52	−0·34	−0·18	−0·67	−5·59	+7·93	+13·08	2·75	−2·78	+0·61	−0·13	+9·03
	Barh	−0·12	−0·43	−0·34	−0·12	−0·77	−3·58	+8·69	+7·55	+3·32	−3·03	+0·75	−0·12	+11·80
Monghyr	Beegooserai	+0·26	−0·53	−0·24	−0·26	−1·31	−3·86	+4·97	+7·94	+0·38	−3·00	+0·27	−0·08	+4·54
	Monghyr	+0·10	−0·59	−0·43	−0·17	+0·86	−5·35	+13·23	+3·40	+1·51	−3·78	+0·10	−0·10	+8·78
	Jamui	+0·23	−0·51	−0·43	−0·10	−1·08	−2·73	+0·86	+13·12	−2·83	−1·45	+0·13	−0·02	+5·19
South Bhagulpore.	Bhagulpore	−0·12	−0·64	−0·39	+0·12	+2·31	−6·22	+12·17	+6·08	−1·72	−3·86	−0·10	−0·09	+7·54
	Banka	−0·04	−0·43	−0·34	0	−1·98	−5·01	−0·34	+7·58	−3·59	−0·98	+0·42	−0·02	−4·72
Sonthal Pergunnas.	Rajmehal	−0·01	−0·39	−0·33	−0·47	−2·06	−7·52	−0·14	+12·87	−7·40	−3·03	+0·02	−0·06	−8·61
	Godda	+0·01	−0·44	−0·40	−0·12	−0·71	−1·61	+1·96	+7·70	−3·62	−2·11	+0·20	−0·08	+0·78
	Pakour	+0·03	−0·43	−0·28	+0·59	−1·88	−4·98	+7·88	+6·33	−1·41	−2·72	+0·16	+0·41	+3·70
	Nya Doomka	−0·07	−0·22	−0·59	+0·18	−1·91	−4·30	−1·10	+12·29	−6·13	−2·97	+1·13	+0·05	−2·84
	Deoghur	+0·06	−0·47	−0·05	−0·55	−1·81	−3·91	+3·31	+9·98	−3·07	−3·02	+0·23	−0·16	+0·53
	Jamtara	+0·18	+0·06	−0·58	−0·14	−0·69	−2·41	+3·80	18·92	−0·73	−2·08	+0·23	−0·14	+5·82
CHUTIA NAGPUR.														
Hazaribagh	Pachamba	+0·25	−0·30	−0·65	−0·39	+0·46	−5·84	+3·44	+10·84	−2·78	+0·04	−0·07	−0·17	+5·73
	Hazaribagh	+1·09	−0·30	−0·62	−0·35	−0·69	−6·32	+7·75	+11·94	−2·66	−2·26	−0·18	−0·22	+6·88
	Semtagurah	+0·93	−0·05	−1·17	−0·22	−2·30	−6·98	+9·78	+8·75	−0·90	−1·42	+0·52	−0·32	+6·56
	Mahudi Hills	+1·96	+0·06	−0·81	−0·07	−2·13	−3·61	+0·25	+10·52	+1·70	0	−3·24	−0·35	+7·33
	Jhoomrah Hill	+0·45	+0·37	−0·73	Nil	−3·16	−7·18	−1·95	+19·65	−5·31	−2·54	−0·26	−0·33	−0·99
Lohardugga	Lohardugga	+1·50	+0·57	−0·20	−0·11	−1·81	−4·80	+2·88	+3·74	−1·46	−1·96	+0·14	−0·01	−2·13
	Ranchee	+0·41	−0·27	−1·30	−0·62	+0·21	−4·59	+6·58	+8·43	−0·31	−2·70	−0·15	−0·21	+5·46
	Palamow	+1·05	+0·13	−0·65	−0·29	−1·12	−2·43	+6·23	+8·60	−0·07	−2·66	−0·33	−0·28	+8·17
Singbhoom	Chyebassa	+0·93	+0·91	−1·21	−0·55	−1·42	−4·97	−1·04	+3·47	−3·06	−2·89	+0·41	−0·35	−10·67
Manbhoom	Purulia	+0·81	+0·25	−0·89	−0·17	−0·57	−4·60	+9·03	+8·01	+1·33	−3·55	+0·48	−0·18	+9·95
	Govindpore	−0·03	−0·46	−0·08	−0·58	−0·53	−4·74	−1·18	+2·29	−1·78	−2·88	+0·42	−0·19	−9·74

METEOROLOGICAL OFFICE, BENGAL,
The 12th February 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Bengal for the month of January 1889.

DISTRICT OBSERVATIONS. RAINFALL. Of month.					Since 15th May 1888.					Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
Nil	0·31	−0·81	0·0	1·0	44·12	55·63	−11·51	70·6	83·3	Pooree	Pooree	ORISSA.
—	—	—	—	—	—	—	—	—	—	Gopalpore		
—	—	—	—	—	—	—	—	—	—	False Point		
0·08	0·36	−0·28	0·4	1·0	51·87	51·98	−0·11	76·7	79·7	Cuttack	Cuttack	
0·08	0·44	−0·36	0·2	1·0	52·95	53·31	−0·36	68·9	77·2	Balasore	Balasore	
Nil	0·43	−0·43	0·0	1·1	54·99	62·37	−7·38	69·3	85·7	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
0·71	0·50	+0·21	0·7	1·2	62·20	51·57	+10·63	71·4	72·3	Midnapore	Midnapore	
0·30	0·50	−0·20	1·5	1·3	62·49	51·66	+10·83	78·7	90·3	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
0·56	0·39	+0·17	1·0	1·1	56·18	46·71	+9·47	74·9	75·9	Burdwan	Burdwan	
0·49	0·41	+0·08	1·0	1·3	52·22	52·28	−0·06	73·5	82·5	Bankoora	Bankoora	
1·60	0·45	+1·15	2·8	1·5	58·09	51·62	+6·47	85·1	83·9	Raniganj	West Burdwan and Beerbhoom.	
1·90	0·45	−1·51	2·5	1·2	48·74	50·55	−1·77	80·7	79·2	Berhampore	Moorshedabad	
1·29	0·35	−0·94	1·4	1·1	54·74	49·14	+5·60	78·0	78·2	Krishnagore	Nuddea	
0·55	0·50	+0·05	1·4	1·3	44·44	53·22	−8·78	73·9	84·9	Jessore	Jessore and Khoolna	
Nil	0·70	−0·70	0·0	1·3	125·77	113·78	+11·99	101·5	107·9	Chittagong	Chittagong	EAST BENGAL.
Nil	0·67	−0·07	0·0	1·4	72·40	81·60	−9·20	96·5	114·4	Domagri	Chittagong Hill Tracts	
0·28	0·71	−0·43	0·8	1·3	72·10	77·01	+4·91	82·3	105·8	Barisal	Backergunge	
Nil	0·70	−0·70	0·0	1·6	105·76	107·11	−1·35	98·5	108·1	Noakholly	Noakholly	
0·69	0·45	+0·24	1·3	1·3	47·92	55·72	7·80	69·3	80·8	Furreedpore	Furreedpore	
0·69	0·42	+0·27	1·3	1·5	56·12	59·60	−3·48	84·2	91·3	Dacca	Dacca	
0·37	0·65	−0·28	0·8	1·5	62·08	69·31	−7·23	80·7	96·7	Commillah	Commillah	
0·89	0·38	+0·51	3·0	1·2	67·24	67·31	−0·07	92·8	80·0	Mymensingh	Mymensingh	
2·01	0·37	+1·64	3·8	1·1	45·64	57·23	−11·59	79·2	77·8	Bogra	Bogra	NORTH BENGAL.
1·33	0·40	+0·93	2·0	1·4	42·?5	53·3?	−11·30	91·5	81·3	Serajgunge	Pubna	
2·24	0·50	+1·74	4·0	1·0	47·24	53·88	−6·64	81·5	77·1	Rampore Beauleah.	Rajshahye	
3·02	0·47	+2·55	3·5	1·6	43·33	54·22	−10·89	75·5	83·8	Maldah	Maldah	
2·96	0·38	+2·58	4·0	1·3	48·57	57·40	−8·83	76·1	78·2	Dinagepore	Dinagepore	
2·53	0·48	+2·07	3·0	0·9	58·41	73·83	−15·42	77·4	76·5	Rungpore	Rungpore	
2·17	0·46	+1·71	2·8	1·3	88·16	111·25	−23·09	94·0	97·1	Julpigoree	Julpigoree and Cooch Behar.	
2·52	0·88	+1·64	3·8	2·7	100·60	121·37	−20·77	118·4	113·7	Darjeeling	Darjeeling Hill Tracts	
2·86	0·50	+2·36	3·2	1·2	50·65	58·68	−8·03	71·6	70·1	Purneah	Purneah and North Bhagulpore.	NORTH BEHAR.
3·10	0·66	+2·44	4·3	1·7	42·49	43·54	−1·05	62·7	57·0	Mozufferpore	Mozufferpore	
3·38	0·64	+2·74	4·7	1·4	42·05	44·72	−2·67	64·7	57·0	Durbhunga	Durbhunga	
2·19	0·67	+1·52	4·0	1·4	43·08	46·79	−3·71	63·5	54·3	Motihari	Chumparun	
2·66	0·67	+1·99	4·3	1·7	40·09	42·98	−2·89	62·7	57·?	Chupra	Sarun	
										Dehree		SOUTH BEHAR.
0·89	0·69	+0·20	3·6	2·0	42·?0	40·08	+2·72	62·4	61·1	Buxar	Shahabad	
										Arrah		
1·35	0·65	+0·70	3·3	2·0	50·81	41·62	+9·19	65·2	57·8	Gya	Gya	
2·28	0·57	+1·71	5·0	1·8	48·99	41·32	+7·67	65·7	62·3	Bankipore	Patna	
2·06	0·56	+2·10	4·0	1·7	50·94	43·17	+7·77	75·2	66·3	Bhagulpore	South Bhagulpore and Monghyr.	
2·22	0·37	+1·85	3·0	1·1	54·46	50·79	+3·67	83·2	75·9	Naya Doomka	Sonthal Pergunnahs	
1·01	0·60	+0·41	2·6	1·6	57·12	50·46	+6·66	83·6	81·2	Hazaribagh	Hazaribagh	CHUTIA NAGPUR.
0·61	0·84	−0·23	2·3	2·5	50·85	49·15	+1·?2	80·5	80·3	Ranchee	Lohardugga	
0·88	0·48	+0·40	2·0	1·6	47·23	46·92	+0·31	91·0	84·0		Maunbhoom	
0·21	0·73	−0·52	1·0	1·8	40·??	51·58	−10·93	70·0	92·3	Chyobassa	Singbhoom	
......	......	...	......	....	......	......	......	......	......	Sibsagar	Assam	ASSAM
......	......	......	......	......	......	......	......	......	......	Dhubri		
......	......	...	......	......	......	......	......	......	......	Silchar		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khurdah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		False Point ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gop ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack ...	Jagatsingpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banki ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cuttack ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kendrapara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dharmsalla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Salipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Balasore ...	Chandbali ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhuddruck ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sorah ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balasore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jellasore ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Batipodah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH WEST BENGAL.	Midnapore ...	Contai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tumlook	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Midnapore ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatal ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kukrahaty .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hesia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhagwanpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garbeta .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Canning Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Jail	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrackpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dum-Dum .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baraset ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Busseerhat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah ..	Howrah										...			...	...	...		...	...	...	...
		Moheshreka (*Ooloobariah*)		...		...															...	...
	Hooghly ..	Serampore ..		...			...			...		...					...	...	...	...		...
		Hooghly .				...	...			...						...		...	...	...		
		Jehanabad	...		...		...		...	...					...		...	...	...	...	...	...
	Burdwan ...	Culna	...	...	...			...	...								...	...		...		...
		Burdwan .	...		...						...						...	...				...
		Cutwa	...		...										...		...	...	...			...
		Raneegunge	...				...		...			...			...	0·15	...	...	...			...
		Mankur .	...	...			...	...	...	...	...	...			...		...	...		...	...	...
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...						...	...	...	...		...	...	...
		Bishenpore ..	...	...					...						...		...	...		...	...	...
		Mulara	...	...	...	...	...		...		...	...		...	...		...	...	...	...	...	...
		Khatra	...	...	...			...			...	...		...	...		...	...		...	...	...
		Indus ..	...	...	...		...	...	...			...			...		...	...	...	...	...	...
		Kotalpore ..	...	...	...		...	...		...	...	...	...				...	...		...		...
		Anda	...			...	...		...	...			...				...		...	...		...
		Gangajalghati				...	...	...	...	...				...			...	...	...	...		...
		Raipore .	...	...	...	...	...	...	...	...		...		...	...	...	...	...	...	...	...	...
		Sonamukhi ...	...	...	...	...	...	...	...		...	...	...		...	...		...	...	...	...	...
	Beerbhoom ...	Bh. Soory .	...	...	...	...	...				...	...	...	...		0·32	...	...	...	...		...
		Hetampore .			...	...			...	...	...	...		...	0·28		...	...	...	...	...	...
		Rampore Haut				...			...		...	...		...		0·28	...	...	...	...	...	...
		Bolpur .	...	...	...	...						...		...	...	...		...	...	...	...	...
		Murarai ..	...	...	...	...					...	...		...	...	...		...	...	...	...	...
	Nuddea ...	Ranaghat	...	...	...	...		...	...		...	...	...		...	...		...	...	...	...	...
		Kishnaghur	...		...		...				...				...		...			...	...	...
		Chooadanga .	...	...	...				...		...	...		...			...	...	...	...		...
		Meherpore .	...	...					...		...	...		...			...	...	...	...		...
		Kooshtea	...	...	...	...			...	...		...	...	...		...		...	...	...		...
	Khoolna ..	Satkhira ..	...	...	...	...		...	...	...	...	...			...	...		...	...	...	...	...
		Bagirhat ..	...	...	...	...	...	...	...	...	...		...	...	...			...	...	...	...	...
		Khoolna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jessore ..	Narail ..	...	...	...	...	...	...	...			...			...	...	...	...	...	...	...	...
		Jessore ..	...	...	...	...	...			...	...	...	...		...	...	...	...	...	...	...	...
		Jhenidah ..	...	...	...	...	...		...	...	...	...	...		...	...	...	...	...	...	...	...
		Magoorah ..	...	...	...	...	...		...	...	...	...	...		...	...	...	...	...	...	...	...
		Bongong ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Moorshedabad	Kandi .	...	...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...
		Berhampore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	...	...	...	...
		Lalbagh ..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08	...	...	...	...	...	...
		Azimgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...	...	...	...
		Jungipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·82	...	...	...	...	...	...
		Lalgola	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...
		Jiagunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...
		Akhriganj	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...
		Patkabari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
EAST BENGAL	Chittagong ...	Cox's Bazar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chittagong .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kutabdia .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Satkania .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ruma ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Backergunge .	Patuakhally ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ferozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burrisal .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gournaddi ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baghat .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Noakholly ...	Noakholly ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Fenny ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Results of the Meteorological Observations taken at the Alipcre Observatory from 3rd to 9th February 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb	3rd	132·8	10 3	30·028	64·1	75·7	23·5	52·2	56·8	0·365	50 3	64	N and WSW ...	63	Nil	Clear, ⌓.
„	4th	138·3	9 7	·045	65·4	73·5	14 6	58·9	56·9	·353	49·4	58	NNE and N ...	87	„	Chiefly cloudy
„	5th	133·0	10 5	·062	63 7	74 3	21·0	53 3	55 4	·333	47·8	57	NE and NNW ...	67	„	Clear.
„	6th	131·8	10·5	·042	63·1	75·8	26 2	49·6	56·1	·363	50·1	65	WNW and calm ...	20	„	Clear, ≡, ⌓.
„	7th	136 1	10·4	·011	65·4	78 9	26 5	52 4	58·5	·401	52·8	68	WNW and calm ...	31	„	Clear, ⌓.
„	8th	139 3	7·6	29 945	68·6	83·8	26·2	57 6	63·1	·511	59 6	76	WSW and WNW ...	35	„	Partially cloudy, o, ≡, ⌓.
„	9th	139 6	9·6	·997	70 8	83 5	21 9	61 6	64·1	·510	59·5	67	NNW and calm ...	47	„	Clear, ≡, ⌓.

	Inches.
The mean pressure of the seven days	30·019
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·969
	Hours.
The total number of hours of bright sunshine	68·6
The maximum possible number of hours of sunshine	78·4
	°
The mean temperature of the seven days	65·9
The average temperature of the corresponding period for 24 years, S. G.'s Office	70·3
The extreme variation of temperature	34 2
The maximum temperature	83·8
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot	Not measureable.
	%
The mean relative humidity	65
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	69
	Inches.
The total fall of rain from 3rd to 9th February 1889 ...	Nil.
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·27
The total fall from 1st January to 9th February 1889	0·16
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·73

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, ≡ fog, ⌓ dew.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 11th February 1889.

Meteorological Report of the Province of

Meteorological Division.	District.	Representative stations.	STATION OBSERVATIONS. Air Pressure. Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Temperature. Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree ..	30·207	29·922	30·074	30·087	—	87·7	55·4	81·3	63·6	72·5	—	84*	—	0·9	—	Nil
		Gopalpore ...	30·182	29·900	30·053	30·103	+·009	83·2	59·0	80·2	65·1	72·6	+2·4	72	—	0·7	—	Nil
		False Point ...	30·177	29·920	30·060	30·092	—·001	87·9	53·0	81·2	60·6	70·9	+1·8	88	+9	1·5	—0·6	Nil
	Cuttack	Cuttack ..	30·148	29·853	30·017	30·102	+·024	92·4	53·9	87·7	61·6	74·7	+2·4	80	+15	2·4	+0·7	Nil
	Balasore	Balasore ..	30·170	29·871	30·044	30·106	—·002	89·4	47·4	83·9	57·1	70·5	+3·1	85	—	0·3	—	Nil
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs.	Saugor Island ..	30·188	29·918	30·074	30·101	+·008	82·7	51·2	78·4*	61·8*	70·1*	+1·9	93	+17	1·8	+0·1	Nil
	Midnapore	Midnapore ..	30·057	29·756	29·946	30·105	—·005	91·3	49·2	84·9	57·3	71·1	+4·8	71	—	0·7	—	1·62
	24-Pergunnahs, Howrah and Hooghly.	Calcutta ...	30·191	29·910	30·078	30·101	+·007	85·5	48·8	79·3	57·4	68·4	+2·2	85	+14	0·6	—0·8	0·15
	Burdwan	Burdwan ..	30·108	29·787	29·994	30·101	0	87·6	44·0	81·6	54·7	68·2	+1·9	71	+7	2·9	+1·2	0·36
	Bankoora	Bankoora ...	29·892	29·599	29·777*	30·098	—	89·1	47·8	82·1	56·0	69·0	—	72	—	1·4	—	0·54
	West Burdwan and Beerbhoom	Raniguuge ..	29·880	29·593	29·761	30·090	+·001	87·5	48·4	81·2	55·8	68·5	+3·0	70	—	2·3	—	1·43
	Moorshedabad	Berhampore .	30·152	29·895	30·032	30·103	+·022	84·6	48·1	78·3	53·7	66·0	+0·7	88	+18	2·4	+0·2	1·38
	Nuddea	Krishnagore ...	30·177	29·855	30·050	30·126	+·052	85·7	41·8	79·9	52·3	66·2	+2·8	84	—	1·9	—	1·06
	Jessore and Khoolua ..	Jessore ...	30·183	29·895	30·073	30·108	+·034	86·7	40·4	80·3	54·6	67·5	+2·1	89	+21	0·9	+0·9	0·49
East Bengal.	Chittagong	Chittagong ...	30·166	29·902	30·001	30·096	+·024	85·6	52·2	81·1	56·3	68·7	+2·2	86	+13	0·9	—0·5	Nil
	Chittagong Hill Tracts	Demagri ..	Observations not received.															
	Backergunge	Barrisal* ...	30·178	29·958	30·083	30·096	+·040	84·3	48·6	79·0	55·6	67·3	+3·3	82*	—	0·1	—	0·25
	Noakholly	Noakholly ...	30·116*	29·935*	30·040*	30·092*	+·034	84·5	46·0	79·8	52·6	66·2	+1·6	88	—	1·8	—	Nil
	Furreedpore	Furreedpore ...	30·165	29·908	30·061	30·103	+·034	84·3	46·0	75·1	53·4	64·3	+1·1	89	—	0	—	0·50
	Dacca	Dacca ..	30·170	29·930	30·063	30·087	+·025	80·1	49·2	80·3	56·2	68·3	+2·0	85	+16	1·2	—0·4	0·27
	Commillah	Commillah ...	30·158	29·915	30·055	30·092	+·024	85·4	48·1	80·1	53·7	67·4	+3·3	90	—	0·7	—	Nil
	Mymensingh	Mymensingh ...	30·140	29·924	30·037	30·098	+·027	79·9?	47·5†	63·1?†	53·0?†	58·0?†	—4·7?	93	—	1·5	—	0·42
North Bengal.	Bogra	Bogra ...	30·123	29·913	30·020	30·087	+·029	84·3	45·9	77·6	52·2	64·9	+1·2	84	—	1·0	—	1·99
	Pubna	Serajgunge ...	30·148	29·921	30·033	30·082	+·009	84·0	44·5	77·4	51·9	64·7	+2·0	90	—	1·4	—	2·13
	Rajshahye	Rampore Beauleah.	30·129	29·907	30·023	30·097	+·027	83·0	43·7	76·7	52·0	64·4	+2·6	82	—	1·0	—	1·68
	Maldah	Maldah ...	30·168	29·941	30·044†	30·130†	—	81·0	43·5	7?·6‡	50·4‡	64·5‡	—	78†	—	1·6†	—	3·89
	Dinagepore	Dinagepore ..	30·095	29·850	29·979	30·108	+·034	81·6	44·4	77·1	50·2	63·6	+2·0	85	—	1·2	—	2·45
	Rungpore	Rungpore ..	30·072	29·834	29·963	30·097	+·007	80·7	4?·8	76·7	49·9	63·3	+2·2	92	—	0·8	—	2·23
	Julpigoree and Cooch Behar.	Julpigoree ..	29·895	29·634	29·796	30·102	+·013	78·5?	46·2?	61·1?	51·3?	56·2?	—5·2?	91	—	0·5	—	2·04
	Darjeeling Hill Tracts...	Darjeeling† ...	23·092	22·897	23·013†	—	+·032	54·1	32·4	47·5	36·2	41·9	+2·1	84	+5	5·2†	—0·3	2·77
North Behar.	Purneah and North Bhagulpore.	Purneah ...	30·090	29·830	29·967	30·104	+·004	79·7	?	76·3	?	?	?	89	+21	1·9	+0·5	3·56
	Mozufferpore	Mozufferpore .	Observations suspended.															
	Durbhunga	Durbhunga ...	30·046	29·787	29·920	30·099	+·010	77·9	48·8	71·1	54·1	62·6	+0·5	83*	+11	1·8	+0·4	3·21
	Chumparun	Motihar.§ ...	30·013	29·822	29·889	30·133	+·047	?	?	?	?	?	?	80§	—	2·4§	—	0·29
	Sarun	Chupra ..	30·036	29·740	29·920*	30·128*	+·047	67·5?	44·6?	59·6?	51·0?	55·3?	—5·7	86	—	1·9	—	1·[illegible]
South Behar.	Shahabad	Dehree ..	29·897	29·570	29·736	30·116	—·001	85·3	49·0	78·8	54·2	66·5	+5·1	77	—	1·5	—	0·40
		Buxar ..	30·009	29·706	29·861	30·122	+·014	83·4	44·9	75·8	51·4	63·6	+1·8	73	—	2·5	—	1·39
		Arrah ..	30·026	29·710	29·806	30·108	+·019	2·8	43·9	75·1	49·9	62·5	+1·8	83	—	1·4	—	1·34
	Gya	Gya‡ ..	29·855	29·557	29·730	30·133	+·027	82·8	46·9	78·5	54·1	66·3	+2·8	70‡	+15	3·4‡	+1·4	0·67
	Patna	Bankipore ..	30·054	29·735	29·920	30·117	+·014	81·9	46·0	74·3	51·4	62·9	+1·8	79	+12	3·7	+1·8	2·12
	South Bhagulpore and Monghyr.	Bhagulpore ..	30·050	29·770	29·932	30·104	+·027	80·3	44·5	74·1	51·4	62·8	+1·4	79	—	1·3	—	1·93
	Sonthal Pergunnahs ...	Naya Doomka ..	29·697	29·423	29·581	30·116	+·013	84·0	43·5	78·1	52·1	65·1	+2·2	77	—	1·3	—	2·00
Chota Nagpore.	Hazaribagh	Hazaribagh ...	28·164	27·860	28·081	30·129	+·026	82·3	45·8	76·6	53·6	65·1	+3·5	59	+8	3·1	+0·8	0·44
	Lohardugga ... ... / Manbhoom	Ranchee ...	28·016	27·747	27·902	30·110	+·013	83·0	42·7	78·1	52·5	65·3	+4·4	60	—	2·1	—	0·07
	Singbhoom	Chyebassa ..	29·43?	29·150	29·324	30·128	+·038	88·7	46·0	84·1	55·1	69·6	+3·6	70	—	1·7	—	0·21
Assam	Assam	Sibsagar ..	29·893	29·717	29·804	30·163	+·033	76·2	46·2	71·9	52·5	62·2	+2·8	99	+13	0·4	+4·0	0·14
		Dhubri ..	30·090	29·872	29·979	30·105	+·003	79·9	52·7	76·2	54·8	65·6	+2·1	92	+15	2·2	+0·5	1·84
		Silchar ...	30·101	29·872	30·002	30·115	+·017	83·2	47·7	80·2	53·2	66·7	+2·4	91	+10	5·8	+2·8	Nil

* Mean of 30 days.
† „ of 29 „
‡ „ of 28 „
§ „ of 26 „

in Bengal in January 1889.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st January 1889.	Average rainfall from 1st January up to 31st January 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	Nil	0.8	Nil	0.25	Nil	Nil	0.25	Pooree ...	Pooree ...	ORISSA.
...	...	...	...	...	...	...	...	...	...	...	Nil	1.3	Nil	0.26	Nil	Nil	0.26	Khurdah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.6	Nil	0.09	Nil	Nil	0.09	Banpur.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.3	Nil	0.55	Nil	Nil	0.55	False Point.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gop.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Pipli.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.7	Nil	0.33	Nil	Nil	0.33	Jagatsingpore	Cuttack	
...	...	...	...	...	0.09	...	...	...	...	...	1	1.5	0.09	0.25	0.09	0.09	0.25	Banki		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.3	Nil	0.38	Nil	Nil	0.38	Cuttack.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.7	Nil	0.42	Nil	Nil	0.42	Kendrapara.		
...	...	...	...	...	...	...	...	0.30	...	...	1	0.8	0.30	0.42	0.30	0.30	0.42	Jajpore		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Salipore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.8	Nil	0.15	Nil	Nil	0.15	Chandbali	Balasore	
...	...	...	...	...	...	...	...	0.50	...	...	1	0.8	0.50	0.10	0.50	0.50	0.40	Bhuddruck.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.8	Nil	0.23	Nil	Nil	0.23	Sorah		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.9	Nil	0.70	Nil	Nil	0.70	Balasore		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.1	Nil	0.68	Nil	Nil	0.68	Jellasore		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.4	Nil	0.28	Nil	Nill	0.28	[illegible]aripodah		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.8	Nil	0.29	Nil	Nil	0.29	Contai	Midnapore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1.1	Nil	0.33	Nil	Nil	0.33	Saugor Island		
...	...	...	...	...	...	...	...	...	...	...	Nil	0.8	Nil	0.36	Nil	Nil	0.36	Tumlook		
...	...	...	...	...	...	...	...	1.67	...	...	1	[illegible]	1.67	0.75	1.67	1.67	0.75	Midnapore.		
...	...	...	...	...	...	...	...	0.46	...	...	1	1.4	0.46	0.50	0.46	0.46	0.50	Ghatal		
...	...	...	...	...	...	...	...	0.09	...	...	1	?	0.09	?	0.09	0.09	?	*Ankrahaty.*		
...	...	...	...	...	...	...	...	0.03	...	...	1	?	0.03	?	0.03	0.03	?	*Heria.*		
...	...	...	...	...	...	...	...	0.55	...	0.63	[illegible]	?	1.18	?	0.6[illegible]	1.18	?	*Bhagwanpore*		
...	...	...	...	...	...	...	...	0.22	0.06	...	2	?	0.28	0.56	0.22	0.28	0.56	*Garbeta.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.4	Nil	0.59	Nil	Nil	0.59	Diamond Harbour.	24-Pergunnahs	SOUTH-WEST BENGAL.
...	...	...	...	0.57	...	...	...	...	...	...	1	?	0.57	?	0.57	0.57	?	*Canning Town*		
...	...	...	...	...	...	...	...	...	0.22	0.05	2	1.4	0.27	0.69	0.22	0.27	0.69	Alipore Jail.		
...	...	...	...	...	...	...	...	...	0.10	...	1	1.2	0.10	0.45	0.10	0.10	0.43	Barrackpore.		
...	...	...	...	...	...	...	...	...	0.44	...	1	1.3	0.44	[illegible]	0.14	0.44	0.52	Dum-Dum.		
...	...	...	...	...	...	...	...	...	0.22	...	1	1.2	0.22	0.57	0.22	0.22	0.57	Barasat		
...	...	...	...	...	...	...	...	...	0.27	...	1	0.9	0.27	0.41	0.27	0.27	0.41	Bussirhat.		
...	...	...	...	...	...	...	...	...	0.15	...	1	2.0	0.15	0.57	0.15	0.15	0.57	Howrah	Howrah	
...	...	...	...	...	...	...	...	0.12	0.09	0.21	3	0.8	0.42	0.50	0.21	0.42	0.50	Mohesrekha (*Oolooberiah*)		
...	...	...	...	...	...	...	...	...	0.15	0.12	2	1.5	0.27	0.41	0.15	0.27	0.41	Serampore	Hooghly	
...	...	...	...	...	...	...	...	0.[illegible]5	0.13	...	2	1.2	0.18	0.44	0.1[illegible]	0.18	0.44	Hooghly.		
...	...	...	...	...	...	...	...	...	0.68	...	1	1.5	0.68	0.40	0.68	0.65	0.40	Jehanabad.		
...	...	...	...	...	...	...	...	...	0.73	...	1	0.9	0.73	0.42	0.73	0.73	0.42	Culna ..	Burdwan	
...	...	...	...	...	...	...	...	...	0.36	...	1	1.3	0.36	0.54	0.36	0.36	0.54	Burdwan.		
...	...	...	...	...	...	...	...	...	0.60	...	1	1.1	0.60	0.46	0.60	0.60	0.46	Cutwa		
...	...	...	...	...	...	...	...	...	1.25	...	2	1.4	1.43	0.36	1.25	1.43	0.36	Raneegunge.		
...	...	...	...	...	...	...	...	...	1.18	...	1	?	1.18	?	1.18	1.18	?	*Mankur.*		
...	...	...	...	...	...	...	...	...	0.55	...	1	1.4	0.55	0.36	0.55	0.55	0.36	Bankoora	Bankoora.	
...	...	...	...	...	...	...	...	...	0.45	0.30	2	1.2	0.75	0.4[illegible]	0.45	0.75	0.42	Bishnupore.		
...	...	...	...	...	...	...	...	...	0.65	...	1	0.9	0.65	0.3[illegible]	0.65	0.65	0.35	Malara		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.8	Nil	0.49	Nil	Nil	0.49	Kustra.		
...	...	...	...	...	...	...	...	...	0.11	0.03	2	?	0.14	?	0.11	0.14	?	Indus.		
...	...	...	...	...	...	...	...	...	0.80	[illegible]09	2	?	1.89	?	1.09	1.89	?	Kotalpore		
...	...	...	...	...	...	...	...	0.15	0.10	...	[illegible]	?	0.25	?	0.15	0.25	?	Anda.		
...	...	...	...	...	...	...	...	...	0.53	...	1	?	0.53	?	0.53	0.53	?	Gangajalghati.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	0.32	Nil	Nil	0.32	*Raipore.*		
...	...	...	...	...	...	...	...	...	0.57	...	1	?	0.57	?	0.57	0.57	?	*Sonamukhi.*		
...	...	...	0.05	...	...	...	...	...	0.75	...	3	1.0	1.12	0.48	0.75	1.12	0.48	Bh Soory	Beerbhoom	
...	...	...	...	...	...	...	...	...	0.81	...	3	1.3	1.36	0.57	0.81	1.36	0.5[illegible]	Hetampore.		
...	...	...	...	...	...	...	...	0.27	1.95	0.25	3	1.3	2.48	0.64	1.95	2.48	0.64	Rampore Haut		
...	...	...	...	...	...	...	...	...	1.45	...	1	?	1.45	?	1.45	1.45	?	*Bolpur*		
...	...	...	...	...	...	...	...	...	...	...		?		?			?	*Mararai.*		
...	...	...	...	...	...	...	...	...	1.72	...	1	0.7	1.72	0.52	1.72	1.72	0.52	Ranaghat	Nuddea.	
...	...	...	...	...	...	...	...	...	0.90	0.17	2	1.1	1.07	0.44	0.90	1.07	0.44	Kishnaghur		
...	...	...	...	...	...	...	...	...	0.94	...	1	1.2	0.94	0.54	0.94	0.94	0.54	Chooadanga.		
...	...	...	...	...	...	...	...	...	1.65	0.50	2	0.9	2.15	0.40	1.65	2.15	0.40	Meherpore.		
...	...	...	...	...	...	...	...	...	0.57	...	1	1.4	0.57	0.39	0.57	0.57	0.33	Kooshtea.		
...	...	...	...	...	...	...	...	...	0.86	...	1	1.3	0.86	0.43	0.86	0.86	0.43	Satkhira	Khoolna	
...	...	...	...	...	...	...	...	...	0.29	...	1	1.0	0.29	0.67	0.29	0.29	0.67	Baguhat.		
...	...	...	...	0.07	...	...	...	...	0.18	...	2	1.5	0.25	0.58	0.18	0.25	0.58	Khoolna.		
...	...	...	...	...	...	...	...	...	0.50	0.23	2	1.5	0.73	0.69	0.50	0.73	0.69	Narail	Jessore.	
...	...	...	...	...	...	...	...	...	0.46	0.03	2	1.6	0.49	0.51	0.46	0.49	0.51	Jessore.		
...	...	...	...	...	...	...	...	...	0.65	...	1	1.2	0.65	0.36	0.65	0.65	0.36	Jhenidah.		
...	...	...	...	...	...	...	...	...	0.65	...	1	1.1	0.65	0.33	0.65	0.65	0.35	Magoorah.		
...	...	...	...	...	...	...	...	...	0.45	...	1	0.7	0.45	0.34	0.45	0.45	0.34	Bongong.		
...	...	...	...	...	...	...	...	...	0.58	[illegible]	2	1.1	0.76	0.45	0.58	0.76	0.45	Kandi ..	Moorshedabad	
...	...	...	...	0.10	...	...	...	...	1.04	...	3	1.5	1.38	0.47	1.04	1.38	0.47	Berhampore.		
...	...	...	...	...	...	...	...	...	1.80	...	2	0.7	1.88	0.57	1.80	1.88	0.57	Lalbagh.		
...	...	...	...	...	...	...	...	...	2.04	...	2	1.4	2.44	0.67	2.04	2.44	0.67	Azimgunge.		
...	...	...	0.07	...	...	...	...	...	2.08	...	3	1.5	2.97	0.57	2.08	2.97	0.67	Jungipore.		
...	...	...	...	0.04	...	...	...	...	2.03	...	3	1.2	2.[illegible]4	0.71	2.05	2.34	0.71	Lalgola.		
...	...	...	0.08	...	...	...	...	...	1.75	...	3	?	1.98	?	1.75	1.98	?	Jiagunge.		
...	...	...	0.03	...	...	...	...	...	2.10	...	3	?	2.36	?	2.10	2.36	?	*Akhriganj.*		
...	...	...	...	...	...	...	...	...	0.50	...	1	?	0.50	?	0.50	0.50	?	*Patkabari.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.3	Nil	0.73	Nil	Nil	0.73	Cox's Bazar	Chittagong .	EAST BENGAL.
...	...	...	...	...	...	...	...	...	...	...	Nil	1.3	Nil	0.50	Nil	Nil	0.50	Chittagong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kutubdia.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Satkania.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.6	Nil	0.54	Nil	Nil	0.54	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1.[illegible]	Nil	0.68	Nil	Nil	0.68	Rumu.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.5	Nil	0.73	Nil	Nil	0.73	Patuakhally ..	Backergunge.	
...	...	...	...	...	...	...	...	...	0.27	...	1	1.1	0.27	0.68	0.27	0.27	0.68	Perozepore.		
...	...	...	...	...	...	...	...	...	0.60	...	1	1.4	0.60	0.60	0.60	0.60	0.69	Burrisal.		
...	...	...	...	...	...	...	...	...	...	0.26	1	1.3	0.26	0.55	0.26	0.26	0.55	Bhola.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil		Nil	Nil	?	*Gournaddi.*		
...	...	...	...	...	...	...	...	...	...	0.03	1	?	0.03	?	0.03	0.03	?	*Bauphal.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1.6	Nil	0.52	Nil	Nil	0.32	Noakholly ...	Noakholly.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1.5	Nil	0.75	Nil	Nil	0.73	Fenny.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL —*concld.*	Noakholly—*concld.*	*Harishpore*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore	Madaripore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Furreedpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dacca	Munshigunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dacca	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naraingunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manickgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...
		Joydebpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola	...	...	...	...	...	...	...	...	...	...	...	...	...	0·42	...	...	...	...	...	...
	Tipperah	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·39	...	...	...	...	...	...
		Brahmunberia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandrapore.	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...
		Nasirnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dandkandi	...	...	...	...	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...
		Kasba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham	...	...	...	...	...	...	...	...	...	...	...	...	...	0·65	...	...	...	...	...	...
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	...	...	0·72	...	...	...	...	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	...
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...
		Jamalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Netrokona	...	...	...	...	...	...	...	...	...	...	...	...	...	1·00	...	...	...	...	...	...
		Subornakhally	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durgapore	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	0·42	...	...	...	...	...	...	...
		Dewanganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BENGAL	Pubna	Pubna	...	...	...	...	...	...	...	...	...	...	...	...	...	1·70	...	...	...	...	...	...
		Serajgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	0·61	...	...	...	...	...	...
	Bogra	Sherpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...
		Nowkhilla	...	...	...	...	...	...	...	...	...	...	...	...	...	0·38	...	...	...	...	...	...
		Bogra	...	...	...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	...	...
		Panchbibi	...	...	...	...	...	...	...	...	...	...	...	...	...	0·38	...	...	...	...	...	...
	Rajshahye	Beauleah	...	...	...	...	...	...	...	...	...	...	...	...	...	1·08	...	...	...	...	...	...
		Nattore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·41	...	...	...	...	...	...
		Naogaon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·52	...	...	...	...	...	...
		Manda	...	...	...	...	...	...	...	...	...	...	...	...	...	0·48	...	...	...	...	...	...
	Maldah	Maldah	...	...	...	...	...	...	...	...	...	...	...	...	...	0·13	...	...	...	...	...	...
		Chanchal	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	...
		Gajol	...	...	...	...	...	...	...	...	...	...	...	...	...	0·07	...	...	...	...	...	...
		Sibganj	...	...	...	...	...	...	...	...	...	...	...	...	0·55	...	...	...	...	...	...	...
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	...	...	...	...	...	0·10	0·08	...	...	...	...	...	...
		Churamon	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...	...
		Raigunge	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...
		Dinagepore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	...
		Baloorghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon	...	...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...
	Rungpore	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	...	...
		Rungpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...	...
		Kurigram	...	...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...
		Bagdogra (*Nilphamari*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ulipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Doar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Falacotta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Debiganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhogotpore (Nagrakatta).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mekligunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matabhanga	...	...	...	...	...	...	...	...	0·01	...	...	...	...	...	...	...	...	...	...	...
	Darjeeling Hill	Buxa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Siliguri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Darjeeling	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kalimpong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...
		Arrareah	...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...	...
		Purneah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·13	...	...	...	...	...
		Gondwara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matiari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliaganj	...	...	...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	...
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	...	...	...	...	...	0·04	...	...	...	...	...	...	...
		Soopool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...	...
	Durbhunga	Tajpore	...	...	...	...	...	...	...	...	...	...	...	...	0·02	...	...	...	...	...	0·10	...
		Durbhunga	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	...	...	...
		Madhubani	...	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...	...
		Bahera	...	...	...	...	...	...	...	...	...	...	...	...	0·36	...	...	...	...	...	...	...
		Roshera	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03	...	...	...	...	...	...
	Mozufferpore	Sitamarhi	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...	...	...
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...
		Hajipore	...	...	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...	...	...	...	...
		Paru	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Siuhar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumparun	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	...	...
		Bagaha	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	...
		Burhurwa	...	...	...	...	...	...	...	...	...	...	...	...	0·48	...	...	...	...	...	...	...
	Sarun	Gopalgunge	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	0·14	...
		Sewan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in January 1889—*continued.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st January 1889.	Average rainfall from 1st January up to 31st January 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Harishpore* ...	Noakholly—*concld.*	EAST BENGAL—concld.
...	...	...	...	...	...	...	...	...	0·12	...	1	?	0·12	?	0·12	0·12	?	*Ramganj.*		
...	...	...	...	...	...	...	...	...	0·40	...	1	1·3	0·40	0·63	0·40	0·40	0·62	Madaripore.	Furreedpore	
...	...	...	...	...	...	...	...	...	0·70	...	1	1·4	0·70	0·36	0·70	0·70	0·36	Furreedpore.		
...	...	...	...	...	...	...	...	...	0·86	0·11	2	1·2	0·97	0·43	0·86	0·97	0·43	Goalundo.		
...	...	...	...	...	...	...	...	...	0·45	...	1	1·6	0·45	0·53	0·45	0·45	0·53	Munshigunge	Dacca.	
...	...	...	...	...	...	...	...	...	0·34	...	1	1·3	0·34	0·30	0·34	0·34	0·30	Dacca.		
...	...	...	...	...	...	...	...	...	0·29	...	1	1·4	0·29	0·31	0·29	0·29	0·31	Naraingunge.		
...	...	...	...	...	...	...	...	...	0·45	1·24	2	1·6	1·69	0·52	1·24	1·69	0·52	Manickgunge		
...	...	...	...	...	...	...	...	...	0·17	...	2	?	0·37	?	0·20	0·37	?	*Joydebpore.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·4	0·42	0·81	0·42	0·42	0·81	Agartola ...	Hill Tipperah.	
...	...	...	...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·59	Nil	Nil	0·59	Comilla ...	Tipperah.	
...	...	...	...	...	...	...	...	...	0·68	...	1	1·1	0·68	0·53	0·68	0·68	0·53	Chandpore.		
...	...	...	...	...	...	...	...	...	...	...	1	1·6	0·39	0·74	0·39	0·39	0·74	Brahmunberia.		
...	...	...	...	...	...	...	...	...	0·02	...	1	?	0·02	?	0·02	0·02	?	*Ramchandrapore.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·25	?	0·25	0·25	?	*Nasirnagar.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·32	?	0·32	0·32	?	*Kasba.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Laksham.*		
...	...	...	0·04	...	...	...	...	...	...	...	2	1·6	0·69	0·57	0·65	0·69	0·57	Kishoregunge	Mymensingh	
...	...	...	...	...	...	...	...	...	0·32	...	2	1·2	1·04	0·43	0·72	1·04	0·43	Atia (*Tangail*)		
...	...	...	0·08	...	...	...	...	...	0·08	0·30	4	1·3	0·57	0·36	0·30	0·57	0·36	Mymensingh.		
...	...	...	...	0·11	...	...	...	...	1·53	0·05	4	0·9	1·84	0·50	1·53	1·84	0·50	Jamalpore.		
...	...	...	0·12	...	...	...	...	...	0·01	0·17	3	0·8	0·30	0·14	0·17	0·30	0·14	Netrokona.		
...	...	...	0·08	...	...	...	...	...	0·24	...	3	?	1·32	?	1·00	1·32	?	*Subornakhally*		
...	...	...	...	[illegible]	...	...	...	...	...	1·60	2	?	1·90	?	1·60	1·90		*Durgapore*		
...	...	...	0·07	...	...	...	...	...	0·62	0·87	4	?	1·66	?	0·87	1·66	?	Sherepore town		
...	...	...	...	...	...	...	...	...	0·02	...	2	?	1·04	?	0·62	1·04	?	*Dewangunj.*		
...	...	...	...	...	...	...	...	...	0·53	...	1	1·4	0·53	0·39	0·53	0·53	0·39	Pubna ...	Pubna	NORTH BENGAL
...	...	...	...	[illegible]	...	...	...	...	0·33	...	3	1·3	2·12	0·53	1·70	2·12	0·53	Serajgunge.		
...	...	...	0·05	...	...	...	...	...	0·55	0·15	4	1·2	1·36	0·42	0·61	1·36	0·42	Sherpore.	Bogra.	
...	...	...	0·10	...	...	...	...	...	0·40	0·79	4	1·1	1·44	0·44	0·79	1·44	0·44	Nowkhilla.		
...	...	...	0·06	...	...	...	...	...	0·58	1·00	4	0·9	2·02	0·48	1·00	2·02	0·48	Bogra.		
...	...	...	...	...	...	...	...	...	1·20	1·82	3	0·8	3·23	0·55	1·82	3·23	0·55	Panchbibi.		
...	...	...	0·13	...	...	...	...	...	1·25	0·02	4	1·0	1·78	0·33	1·25	1·78	0·33	Beauleah.	Rajshahye	
...	...	...	0·20	...	...	...	...	...	1·32	0·15	4	0·9	2·70	0·72	1·32	2·70	0·72	Nattore		
...	...	...	0·10	...	...	...	...	...	0·99	1·31	4	0·8	2·81	0·36	1·31	2·81	0·36	*Naogaon.*		
...	...	...	...	...	...	...	...	...	0·50	0·38	2	?	0·88	?	0·50	0·88	?	*Lalpore.*		
...	...	...	0·08	...	...	...	...	...	1·20	1·20	4	?	3·00	?	1·20	3·00	?	*Manda.*		
...	...	...	0·05	...	...	...	...	...	0·08	2·68	4	1·4	3·89	0·73	2·68	3·89	0·73	Maldah	Maldah	
...	...	...	...	...	...	...	...	...	0·76	1·25	3	1·7	2·14	0·64	1·25	2·14	0·63	Chanchal.		
...	...	...	...	...	...	...	...	...	0·90	1·60	3	?	2·59	?	1·60	2·59	?	*Gajol.*		
...	...	...	0·10	...	...	...	...	...	2·18	0·34	4	?	2·69	?	2·18	2·69	?	*Sibganj.*		
...	...	...	0·08	...	...	...	...	0·50	2·15	...	4	1·0	3·28	0·57	2·15	3·28	0·57	Mohadebpore	Dinagepore	
...	...	...	0·06	...	...	...	...	...	0·89	1·97	5	1·2	3·10	0·63	1·97	3·10	0·63	Churamon.		
...	...	...	0·03	...	...	...	...	...	0·79	2·10	4	1·6	3·04	0·76	2·10	3·04	0·76	Raigunge.		
...	...	...	...	...	...	...	...	...	0·20	2·16	3	1·6	2·42	0·36	2·16	2·42	0·36	Dinagepore.		
...	...	...	0·05	...	...	...	...	...	0·94	1·81	4	1·0	2·05	0·62	1·81	2·95	0·62	Baloorghat		
...	...	...	...	...	...	...	...	...	0·57	1·90	2	?	2·47	?	1·90	2·47	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	...	1·16	1·45	3	0·8	2·79	0·47	1·45	2·79	0·47	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	0·04	...	...	...	...	...	0·37	2·12	4	0·9	2·75	0·51	2·12	2·75	0·51	Rungpore.		
...	...	...	...	...	...	...	...	...	...	2·24	2	0·9	2·36	0·64	2·24	2·36	0·64	Kurigram.		
...	...	...	...	...	...	...	...	...	0·40	1·70	3	0·8	2·28	0·62	1·70	2·28	0·62	Bagdogra. (*Nilphamari*)		
...	...	...	...	...	...	...	...	...	0·26	1·24	3	?	1·50	?	1·24	1·50	?	*Ultipore.*		
...	...	...	0·06	0·40	...	...	...	...	0·04	1·36	4	1·5	2·46	0·68	1·36	2·46	0·63	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	...	0·60	1·08	2	?	1·68	?	1·08	1·68	?	*Alipore Doar.*		
...	...	...	...	0·19	...	...	...	...	0·43	1·08	3	?	1·70	?	1·08	1·70	?	*Falarotta.*		
...	...	...	...	...	...	...	...	...	0·40	1·88	2	?	2·28	?	1·88	2·28	?	*Debiganj.*		
...	...	...	...	...	...	...	...	...	0·70	0·98	2	?	1·68	?	0·98	1·68	?	Bhogotpore (Nagrakatta.)		
...	...	...	...	...	...	...	...	...	0·31	1·85	2	1·6	2·16	0·67	1·85	2·16	0·67	Dinhatta	Cooch Behar.	
...	...	...	...	0·95	...	...	...	...	0·40	1·27	3	1·2	2·62	0·55	1·27	2·62	0·55	Cooch Behar.		
...	...	...	...	...	...	...	...	...	0·45	1·43	2	0·8	1·88	0·39	1·43	1·88	0·39	Mokligunge.		
...	...	...	...	0·02	...	...	...	...	0·40	1·30	3	1·4	1·72	0·45	1·30	1·72	0·45	Matabhanga.		
...	...	...	0·21	0·17	...	...	...	...	0·50	1·05	5	3·5	2·24	1·17	1·35	2·24	1·17	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	...	0·66	1·40	2	1·6	2·06	0·91	1·40	2·06	0·91	Siliguri.		
...	...	...	0·45	0·06	...	...	...	...	0·84	1·50	4	2·8	2·85	0·76	1·50	2·85	0·76	Darjeeling.		
...	...	...	0·38	0·04	...	...	...	...	1·02	1·48	4	2·7	2·92	1·29	1·48	2·92	1·29	Kalimpong.		
...	...	...	...	...	...	...	...	...	0·58	1·40	2	1·3	1·98	0·70	1·40	1·98	0·70	Kissengunge.	Purneah ...	NORTH BEHAR.
...	...	...	...	...	...	...	...	...	0·80	1·30	2	0·9	2·10	0·61	1·30	2·10	0·61	Arrareah.		
...	...	...	...	...	...	...	...	...	1·10	1·27	3	1·3	2·58	0·57	1·27	2·58	0·57	Purneah.		
...	...	...	...	...	...	...	...	...	1·20	1·60	3	?	2·98	?	1·60	2·98	?	*Gondwara.*		
...	...	...	...	...	...	...	...	...	0·97	1·80	3	?	2·90	?	1·80	2·90	?	*Balarampore*		
...	...	...	...	...	...	...	...	...	2·38	0·43	2	?	2·81	?	2·38	2·81	?	*Matiari.*		
...	...	...	...	...	...	...	...	...	0·45	1·17	3	?	1·62	?	1·17	1·62	?	*Kaliaganj*		
...	...	...	0·02	...	0·02	...	...	...	1·22	2·75	5	1·4	4·17	0·67	2·75	4·17	0·67	Maddapore	North Bhagulpore.	
...	...	...	0·06	...	...	...	...	...	1·22	2·05	4	1·3	3·37	0·62	2·05	3·37	0·62	Soopool.		
...	...	...	...	...	...	...	...	0·20	2·57	0·15	3	?	2·92	?	2·57	29 2	?	*Protabganj.*		
...	...	...	0·05	...	...	...	...	...	1·88	2·00	4	1·4	4·18	0·83	2·00	4·18	0·83	Tajpore ...	Durbhunga.	
...	...	...	0·11	...	...	...	...	...	1·29	1·71	5	1·4	3·24	0·67	1·71	3·23	0·67	Durbhunga.		
...	...	...	0·14	...	...	...	...	0·04	1·12	1·13	5	1·4	2·73	0·85	1·13	2·73	0·85	Madhubani		
...	...	...	0·07	...	...	...	...	0·03	1·48	1·97	5	?	3·61	?	1·97	3·61	?	*Bahera.*		
...	...	...	0·10	...	...	...	...	...	2·25	0·62	4	?	3·33	?	2·25	3·33	?	*Roshera.*		
...	...	...	0·15	...	...	...	...	...	1·55	2·20	4	1·2	3·93	0·71	2·20	3·93	0·71	Sitamarhi.	Mozufferpore	
...	...	...	0·15	...	...	...	...	...	1·52	1·27	4	1·7	3·44	0·94	1·52	3·44	0·94	Mozufferpore		
...	...	...	0·07	...	...	...	...	0·06	1·28	0·42	5	2·1	1·92	0·72	1·28	1·92	0·72	Hajipore.		
...	...	...	0·20	...	...	...	...	...	0·43	0·50	4	?	1·48	?	0·50	1·48	?	*Paru.*		
...	...	...	0·60	...	...	...	...	...	1·40	0·80	3	?	2·89	?	1·40	2·89	?	*Mahua.*		
...	...	...	...	...	...	...	...	...	11·45?	2·42	2	?	13·87?	?	11·45?	13·87	?	*Siuhar.*		
...	...	...	0·17	...	...	...	...	...	1·23	1·00	3	?	2·40	?	1·23	2·40	?	*Pupri.*		
...	...	...	0·23	...	...	...	...	0·14	0·95	1·26	4	1·6	2·58	0·53	1·26	2·58	0·53	Motihari ...	Chumparun.	
...	...	...	0·22	...	...	...	...	0·15	0·61	0·83	4	1·2	1·81	0·75	0·83	1·81	0·75	Bettiah.		
...	...	...	0·19	...	...	...	...	0·19	0·52	1·90	5	?	2·89	?	1·90	2·80	?	*Bagaha.*		
...	...	...	0·39	...	...	...	...	0·07	1·12	1·25	5	?	2·88	?	1·25	2·83	?	*Burhurwa.*		
...	...	...	0·58	...	...	...	...	0·00	1·27	1·40	4	1·3	3·29	0·84	1·40	3·29	0·84	Gopalgunge.	Sarun.	
...	...	...	0·45	...	...	...	...	...	1·04	0·65	4	2·2	2·60	0·85	1·04	2·6	0·85	Sewan		
...	...	...	0·22	...	...	...	...	...	1·19	0·44	5	1·7	2·09	0·75	1·19	2·09	0·75	Chuprah.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhuboosh ...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	0·02	...
		Mohaniah ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	0·04	...	...	...	...	...	0·05	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrh ...	...	...	...	...	...	...	...	...	...	...	...	...	0·28	...	...	...	...	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ..	Begooserai ...	...	...	...	...	...	...	...	...	...	...	...	...	0·21	0·03	...	...	...	...	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	0·02	...	...	...	...	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·27	...	...	...	...	...	...
		Gogri ...	...	...	...	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	0·21	0·16	...	...	...	...	...	...
		Banka ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	0·01	0·18	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	...	...	...	...	...	...	...	...	...	...	...	...	0·19	...	...	...	...	...	...
		Deoghur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	...	...
		Mohagama .	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHUTIA NAGPUR.	Hazaribagh ..	Pachamba ... (*Giridi*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	...
		Seintugurah	...	...	...	...	...	...	...	...	...	...	...	...	0·47	...	...	...	...	...	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	0·31	...	...	...	...	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·43	...	...	...	...	...
		Chatra .	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...
		Karagdeha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga..	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	...	...	...	...	...	...
		Palamow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·29	...	...	...	...	...	...
		Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hoseinabad .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singbhoom ...	Chyebassa ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baharagura ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...
		Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...																				
		Chas ...																				

in Bengal for the month of January 1889—*concluded.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st January 1889	Average rainfall from 1st January up to 31st January 1889.	Station.	District.	Meteorological division.
...	...	..	0·30	...	...	...	...	..	0·67	0·31	4	2·2	1·33	0·81	0·67	1·33	0·81	Buxar	Shahabad	SOUTH BEHAR.
...	...		0·13		...		...	..	0·15	0·21	3	2·4	0·49	0·73	0·21	0·49	0·73	Dehree.		
	...	..	0·30			...	.	.	0·10	.	3	1·3	0·50	0·67	0·30	0·50	0·67	Bhuboo[illegible].		
...	...	...	0·20	...	...	...	...	...	0·20	0·10	3	1·8	0·50	0 0	0·20	0·50	0·50	Sasseram.		
...	...	...	0·12	...	...	...	...	...	0·90	0·55	5	2·2	1·64	0·86	0·90	1·64	0·86	Arrah.		
...	...	...	...	...	..	.	...	...				?		?			?	*Mohaniah.*		
...	...	...	0·08	...			.	...	0·57	..	2	1·8	0·65	0·61	0·57	0·65	0·61	Arungabad ..	Gya.	
..	...	..	0·05	...	.	...	.	0·12	0·55	.	3	2·4	0·72	0·73	0·55	0·72	0·73	Gya		
...	...	...	0·09		..		...	...	1·75	0·10	4	1·6	2·12	0·77	1·75	2·12	0·77	Nowadah.		
.	...	...	0·06	...	...	...	..		1·77	0·02	4	2·1	1·90	0·78	1·77	1·90	0·78	Jehanabad.		
..		.	0·10	...	...	...	...	...	0·58	0·15	3	?	0·92	?	0·58	0·92	?	*Arwal.*		
..	.	..		..	...	...			0·40		1	?	0·40	?	0·40	0·40	?	*Daudnagar.*		
.	...	..	0·11		...	.		.	0·40	0·80	4	?	1·41	?	0·80	1·41	?	*Sheerghati.*		
...	..	.	.	...	..	..		..				?		?			?	*Rajauli.*		
	...			...	..	...	...	..	1·00	...	1	?	1·00	?	1·00	1·00	?	*Pakri Barawan.*		
..	...	...	0·08	...		..	...	...	1·08	0·27	5	2·4	2·12	0·73	1·68	2·12	0·73	Patna	Patna	
	..	..			..		..	.	1·23	0·77	2	1·5	2·00	0·66	1·23	2·00	0·66	Dinapore.		
...	...	...	0·07	.	..		..	.	1·82		2	2·0	1·89	0·73	1·82	1·89	0·73	Behar.		
..	. .	.			...		..	...	2·48	0·37	3	1·4	3·13	0·61	2·48	3·13	0·61	Barrh		
	.			..	...	...	..	..	0·90	0·40	2	?	1·30	?	0·90	1·30	?	*Bickram.*		
..	..	...	0·02	.	...	...	..		1·65	0·21	3	?	1·88	?	1·05	1·88	?	*Hilsa.*		
	...	...		..		...	...		2·60	0·31	4	1·4	3·15	0·70	2·60	3·15	0·70	Begooserai	Monghyr.	
..	.	.	0·02		.	...		...	2·01	0·13	5	1·9	2·30	0·50	2·01	2·30	0·50	Monghyr.		
.			0·07				..	...	2·14		3	1·6	2·48	0·81	2·14	2·48	0·81	Jumui		
...	.	...	..			...	..	..	2·67	2·16	3	?	5·15	?	2·67	5·15	?	*Gogri.*		
...	...	...	...		...	..	..	...	1·45	...	1	?	1·45	?	1·45	1·45	?	*Sheikpura.*		
...	.	..		...		.	..	.	1·58	0·08	4	1·9	2·03	0·54	1·58	2·03	0·54	Bhagulpore	South Bhagulpore	
...			0·13	...	...				3·05	0·06	4	2·7	3·34	0·74	3·05	3·34	0·74	Banka		
	...		..					.	1·33	0·80	4	?	2·32	?	1·33	2·32	?	*Kolgong.*		
...		...	0·12	.	...		.	...	0·99	0·77	4	0·8	2·34	0·31	0·99	2·34	0·31	Rajmehal	Sonthal Pergunnahs	
.	.	.	0·20		.	...	...		3·25	0·20	3	1·1	3·65	0·55	3·25	3·65	0·55	Godah		
	.	...	0·08	.	...		.		2·74		2	0·9	2·82	0·53	2·74	2·82	0·53	Pakour		
..	.	..	0·11	.			.	.	1·46	0·26	4	1·7	2·02	0·63	1·46	2·02	0·63	Nya Doomka		
.		.	0·11		..		...	...	1·30	0·08	3	1·5	1·49	0·48	1·30	1·49	0·48	Deoghur.		
...	.			.	...	..	..	.	0·72		2	0·9	1·02	0·48	0·72	1·02	0·48	Jamtara.		
..	...	..		...	..		.		1·15	0·20	3	?	1·41	?	1·15	1·41	?	*Mohagama.*		
...	...		.				.		0·81	0·03	2	?	0·84	?	0·81	0·84	?	*Nanuhat.*		
...	...	...	0·21	...		.		..	1·24		2	1·5	1·45	0·45	1·24	1·45	0·45	Pachamba (*Giridi*).	Hazaribagh ..	CHUTIA NAGPUR.
...	..	...	0·08			..			0·20	...	3	2·8	0·44	0·55	0·20	0·44	0·55	Hazaribagh.		
	...	..	0·10	..		..		0·20		.	3	1·2	0·77	0·51	0·47	0·77	0·51	Semtarmah.		
.	.	...	0·09		..		.		0·81		3	1·4	1·21	0·85	0·81	1·21	0·83	Mahuda Hills		
...				...	.	.		1·00			2	1·1	1·20	0·55	1·00	1·20	0·55	Jhoomrah Hills		
...	. .		0·15				..				2	?	0·58	?	0·43	0·58	?	*Barhi.*		
...	...		0·15					..	0·05		3	?	0·30	?	0·15	0·30	?	*Chatra*		
..	..	...		...				..	1·10	0·80	3	?	2·00	?	1·10	2·00	?	*Karagdeha.*		
..	..	..		...	..	..	.	..		..	Nil	?	Nil	?	Nil	Nil	?	*Ramghar.*		
	.	.	0·07	...	..	..	...	0·31		.	2	3·6	0·38	0·98	0·31	0·38	0·98	Lohardugga .	Lohardugga.	
...	...		0·05		.		..				2	1·9	0·07	0·77	0·05	0·07	0·77	Ranchi		
...	.		0·35	.	.	.	...	...	0·73	..	3	2·0	1·37	0·80	0·73	1·37	0·80	Palamow.		
.	..	..	..	.								?		?			?	*Silli*		
.		.	.	...								?		?			?	*Balumat*		
	...	...	.	..	..	.	.		0·89	0·20	2	?	1·09	?	0·89	1·09	?	*Hoseinabad.*		
...	...	..	...	...				0·25	...	.	1	?	0·25	?	0·25	0·25	?	*Garwah*		
...	. ..	..	...	..	.	.		0·21	.	...	1	1·8	0·21	0·71	0·21	0·21	0·71	Chyebassa	Singbhoom.	
...	. ..	.		.	.		...	.	...	.	Nil	?	Nil	?	Nil	Nil	?	*Chakradharpore*		
	...	...	...			.	..	0·25			1	?	0·25	?	0·25	0·25	?	*Ghatsila*		
...	.. .	..	..	.								?		?			?	*Baharagura*		
...	...	...	...		..		...	.	0·86	...	2	1·8	0·98	0·44	0·86	0·98	0·44	Purulia	Manbhoom.	
...	.	...	...	...	.		.	...	0·65	.	2	1·4	0·77	0·53	0·65	0·77	0·53	Gobindpore.		
...	...	...	.	...		.	...	...	0·44		2	?	0·53	?	0·44	0·53	?	*Raghunathpore.*		
...	...	..	...	...	...	...	...	.	...	...	Nil	?	Nil	?	Nil	Nil	?	*Barrabhoom.*		
																		Jhalda.		
																		Chas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF JANUARY 1889.

The normal meteorology of January in Bengal is very similar to that of the two previous cold-weather months, except that usually the cold-weather conditions are more strongly developed in this month than in any other part of this season. Fairly strong northerly winds with practically cloudless skies, and with low temperature and humidity, rather high pressure and an almost complete absence of rain obtain for the greater part of the month, unless these normal conditions are disturbed and almost reversed by the formation or appearance of barometric depressions over Northern India, which subsequently drift in a southerly or south-easterly direction through Central India and the North-West Provinces into Chutia Nagpur, Behar and Bengal. These disturbances give moist southerly and south-easterly winds to Bengal with heavily clouded skies and damp rainy weather, the day temperature remaining low, but the night temperature increasing largely. The heaviness of the rainfall brought up by these depressions varies largely, but the rainfall is usually largest in Behar.

Pratically the whole of the rainfall in January is brought about by these disturbances, and the amount is usually small, averaging from about a third of an inch in Orissa up to nearly two-thirds of an inch in North Behar and Chutia Nagpur

Meteorology of the month.—The chief features in the meteorology of January 1889 have been—

1. Pressure has been in excess over the whole province, the excess being very small in the south-western districts, and moderate in amount in the eastern and northern districts In Bengal the excess has averaged about 0·017 inch, while in Assam it has averaged 0·018 inch.

2. The average temperature for the whole month in Bengal has been about 2·2° above the normal, while in Assam the excess has been 2·4°. The distribution of temperature during the month has, however, been irregular, and while for the first half temperature was generally below the normal, during the second half it was above the normal by decidedly large amounts.

3. Humidity has been rather largely above the normal at almost all stations, the average variation in Bengal being an excess of about 13 per cent., while in Assam it has equalled 15 per cent.

4. Cloud proportion has been slightly above the normal in Bengal and rather largely above it in Assam.

5 There was an almost complete absence of disturbances until about the middle of the month; but on the 13th and 14th fairly general but light rain was brought to the greater part of Behar and North Bengal, and to parts of East Bengal by a disturbance which apparently travelled in a south-easterly direction along the line of the hills. Rainfall was again brought to the same districts and to Chutia Nagpur also on the 24th by a depression which advanced from Central India, but the most important rainfall during the month was brought by a decided barometric depression from Northern India which passed over Bengal on about the 30th and 31st, and which gave heavy rain to Behar and North Bengal, and moderate rain in all other districts, except Orissa.

6. Rainfall has been largely above the normal in North Bengal and Behar, moderately above it in South-West Bengal and Chutia Nagpur, slightly below it in East Bengal, while in Orissa rainfall has been almost absent, and has not been more than about a sixth of the usual fall.

The weather conditions for the first twelve days of the month call for practically no comment as they were of normal north-east monsoon character. The conditions then underwent change and a feeble depression formed on the 12th in Bengal, but this rapidly filled up, and on the 13th a depression which had previously been slowly advancing form Northern India along the line of the Himalayas existed apparently over the hills to the north of Behar and Bengal. Southerly moist winds then set in over the province for some days, temperature rose rapidly, and rain fell on the 13th and 14th in all districts except Orissa and South-West Bengal, but even in the last district a few showers were reported. Conditions again became settled and of ordinary north-east monsoon character from the 14th up to the 24th, and on this day a depression from Central India advanced over Bengal giving cloudly weather and light showers, but the depression rapidly passed in an easterly direction and fine settled weather again set in from the 25th to the 30th, when again Bengal was affected by two depressions which had formed in Central and Northern India, and which advanced in an easterly and south-easterly direction. This disturbance was of sufficient importance to give general and rather heavy rain on usually two days to almost all stations in the province, except in Orissa, and there is no doubt that this disturbance formed by far the most important feature in the meteorology of the whole month. The depression however, passed comparatively rapidly over Bengal, and by the 1st of February weather was again of normal north-east monsoon character.

Pressure.—Except for the variations of pressure caused by the passage of the depressions above described through the province, the oscillations of pressure have been of little importance. Taking into consideration only those stations from which pressure averages have been received for a number of years, and which therefore yield reliable averages, the mean

pressure of the month has been 0·017 inch in excess of the normal. In South-West Bengal and at the head of the Bay, as represented by such stations as Calcutta, Saugor Island and False Point, pressure has been almost normal, while such stations as Jessore, Chittagong and others show excess pressures of about 0·03 inch. In Assam also Dhubri shows a pressure almost normal for the month, while the other stations show a decided excess.

Temperature—Was comparatively low for the first half of the month and very high for the second half. For the whole month temperature has been in excess of the normal by about two degrees, though for a part of the month, from the 13th to the 18th, temperatures of from 6° to 8°, and even nearly 10° above the normal were reported.

The actual oscillations and variations of the temperature for the month from the normal are best shown in the following table, where the variations from the normal of the average maximum, minimum and mean temperature at nine typical stations in different districts of the province are given week by week :—

STATIONS.	WEEK ENDING 4TH JANUARY.			WEEK ENDING 11TH JANUARY.			WEEK ENDING 18TH JANUARY.			WEEK ENDING 25TH JANUARY.		
	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean
Cuttack	+1·0	−3·4	−1·2	+0·8	−1·5	−0·3	+6·5	+0·4	+3·5	+4·9	+4·1	+4·5
Calcutta	−0·4	−4·1	−2·2	+0·8	−1·9	−0·5	+5·7	+7·4	+6·5	+3·0	+3·2	+3·1
Dacca	+0·4	−1·5	−0·5	+1·6	−1·2	+0·2	+4·4	+6·0	+5·2	+4·7	+1·7	+5·2
Burdwan ...	+0·2	−4·8	−2·4	+2·4	−5·8	−1·7	+7·1	+7·1	+7·1	+5·3	+1·4	+3·4
Patna	−0·1	−1·4	−0·7	+2·0	−2·0	0	+3·9	+4·9	+4·4	+2·6	+2·7	+2·7
Gya	+1·8	−1·9	0	+2·9	−1·2	+0·8	+6·6	+7·1	+6·8	+4·1	+3·1	+3·7
Purneah	−0·5	—	—	+1·0	—	—	+2·0	—	—	+2·4	+3·0	+2·7
Hazaribagh ...	−3·1	−1·6	−2·4	+2·7	+0·4	+1·5	+7·3	+8·4	+7·9	+4·0	+2·4	+3·2
Darjeeling	+1·8	−0·1	+0·9	+1·0	−0·1	+0·5	+4·3	+0·[illegible]	+2·6	+3·7	+3·0	+5·3

Rainfall—The periods of rainfall during the month have already been discussed. The actual amounts of rainfall have been largest in North Behar, the stations of which average 2·88 inches for the month, or nearly five times the amount which falls in normal years. In North Bengal an average fall of 2·38 inches has been registered, or about six times the normal fall. South Behar has received an average amount of 1·90 inches, or from three to four times the normal. In South-West Bengal a fall of 0·82 inch is recorded, or about twice the usual amount; while in Chutia Nagpur an average fall of 0·80 inch has been registered, which is only slightly larger than the normal. In East Bengal the fall has been 0·46 inch, which is about four-fifths of the normal fall in this district, while finally in Orissa the rainfall has averaged merely a few hundredths of an inch, and is about a fifth of the usual fall only.

Taking up the rainfall more in detail, the following districts have received falls, which average more than three inches—Durbhunga, Mozufferpore and Maldah ; the following between two and a half and three inches—Dinagepore, Rungpore, Darjeeling Hills, Purneah, Bhagulpore Sarun and Monghyr; the following from two to two and a half inches—Bogra, Rajshahye, Julpigooree and Cooch Behar, Champarun, Patna and South 24-Pergunnahs. Falls of between one and two inches have been received in the districts of Beerbhoom and West Burdwan, Moorshedabad, Nuddea Pubna, Gya and Hazaribagh, and falls of between half and one inch in Midnapore, Burdwan, Jessore, Khoolna, Furreedpore, Dacca, Mymensingh, Shahabad, Lohardugga and Manbhoom. The smallest falls of less than a tenth of an inch, and where the districts have been practically rainless, are reported in Pooree, Cuttack, Balasore, Chittagong and Chittagong Hill Tracts and Noakholly.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of January 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	92·4	47·4	82·9	61·6	72·2	+2·4	0·06	0·38	—0·32	0·2	1·0	—0·8	50·54	53 46
South-West Bengal	91·3	43·8	80·7	56·0	68·3	+2·4	0·82	0·45	+0·37	1·5	1·2	+0 3	55·34	51 94
East Bengal	86·1	40·0	77·1?	54·4?	65 7?	+1·3?	0·46	0·56	—0·10	1·2	1·4	—0·2	71·03	74·28
North Bengal	84·3	43·5	75·0?	51·1?	63·1?	+0·8?	2·38	0·43	+1·95	3·3	1·2	+2·1	55 57	70·43
North Behar	79·7	44·6	?	?	?	?	2·88	0·60	+2·28	4·0	1·5	+2·5	44·49	48·79
South Behar	85·3	43 5	76·4	52·1	64·2	+2·4	1·90	0·56	+1·34	3·4	1·7	+1·7	50·09	43·86
Chutia Nagpur	83·0*	42·7*	77 4*	53·1*	65·2*	+4·0*	0·80	0·66	+0·14	2·3	1·9	+0·4	50·97	49·57
Assam	83·2	46·2	76·1	53·5	64·8	+2·4								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL,
The 12*th February* 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 3rd to 9th February 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°		°	Inches.	°	%	Inches.
February ...	3rd ...	Rejected	65·6	77·9	24 7	53·2	68 6	65·6	·592	63 7	85	Nil.
" ...	4th ...	Do.	66·1	74·9	17·6	57 3	68·6	57·0	·313	46 1	45	"
" ...	5th ...	30·131	64·4	75 9	23 0	52 9	67·6	57·5	·342	48·5	51	"
" ...	6th ...	·125	64 4	77 9	27·0	50 9	69 4	57·7	·323	47·0	45	"
" ...	7th ...	·086	67·8	81·7	27 8	53 9	71·4	61 8	·410	53 4	53	"
" ...	8th ...	·014	72·0	85 1	26·2	58 9	71 4	69 6	·701	68·6	91	"
" ...	9th ...	·060	73 8	84·9	22·2	62 7	78 1	63 8	·402	52 9	42	"

The mean 10 A.M. pressure of the five days	... ...	Inches. 30·083
The mean temperature of the seven days	... ...	67·7°
The extreme variation of temperature	... ...	34·2
The maximum temperature	... ...	85·1
The mean relative humidity at 10 A.M.	... ...	59 %
The total fall of rain from 3rd to 9th February 1889	... ...	Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 11th February 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree ...	30·057	30·070	—	NNW	185	87·2	2nd Feb.	58·9	2nd Feb.	83·4*	63·5*	73·5*	—	67·6
		Gopalpore ..	30·030	30·080	+·032	NNW	247	87·3	2nd ,,	65·9	2nd ,,	81·8	70·4	76·1	+4·2	72·9
		False Point ..	30·050	30·072	+·020	N	199	82·4	8th ,,	57·0	6th ,,	80·1	61·0	70·6	−0·5	68·0
	Cuttack ...	Cuttack ..	30·002	30·087	+·054	Calm	83	93·4	8th ,,	59·3	2nd ,,	87·4	62·4	74·9	+0·6	66·5
	Balasore	Balasore ..	30·043	30·105	+·044	NW	97·3	86·4	8th ,,	54·0	6th ,,	80·9	57·0	69·0	−0·7	62·7
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·066	30·093	+·041	NE	240	78·7	4th ,,	54·8	5th ,,	76·7	58·4	67·6	−2·5	62·8
	Midnapore ...	Midnapore ...	29·938	30·097	+·039	N	77·1	84·3	8th ,,	52·2	5th ,,	80·0	55·1	67·6	−0·9	62·0
	24-Pergunnahs ..., Howrah ..., Hooghly ...	Calcutta ..	30·071	30·094	+·036	Calm	58	78·5	8th ,,	49·8	6th ,,	75·2	54·0	64·6	−3·5	59·6
	Burdwan	Burdwan ..	29·987	30·004	+·038	Calm	35·4	80·5	8th ,,	43·2	5th ,,	76·8	50·7	63·8	−4·1	58·4
	Bankoora	Bankoora ..	29·760	30·082	—	Calm	64	82·1	8th ,,	50·8	5th ,,	77·8	53·2	65·5	—	58·5
	Beerbhoom ..., West Burdwan ...	Raneegunge	29·752	30·081	+·041	WNW	63·1	80·5	6th ,,	50·0	5th ,,	76·3	53·0	64·7	−2·1	59·1
	Moorshedabad	Berhampore	30·016	30·087	+·045	Northerly	62·7	76·6	6th ,,	40·1	5th & 6th Feb	73·1	51·5	62·3	−4·7	57·1
	Nuddea	Krishnaghur	30·057	30·127	+·069	NW	85·3	78·3	8th ,,	47·8	6th ,,	75·0	49·6	62·3	−2·1	50·0
	Jessore ..., Khoolna ...	Jessore ..	30·065	30·100	+·067	NW	52·0	79·5	8th ,,	49·4	5th ,,	76·2	51·0	63·6	−3·8	56·6
East Bengal.	Chittagong	Chittagong	29·983	30·079	+·035	Calm	45·7	81·1	8th ,,	51·2	3rd ,,	78·6	54·5	66·5	−1·7	59·0
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ...	30·080	30·093	+·071	Calm	52·2	77·3	8th Feb.	40·1	8th Feb	75·2	52·0	63·6	−1·9	61·7
	Noakholly	Noakholly ...	30·038	30·084	+·074	Calm	10·5	78·0	8th ,,	48·2	3rd ,,	75·3	50·9	63·1	−2·4	60·1
	Furreedpore	Furreedpore..	30·056	30·098	+·050	N	51	73·8	8th ,,	48·0	5th ,,	72·9	50·4	61·7	−1·3	58·3
	Dacca	Dacca ...	30·059	30·083	+·060	Calm	56·1	79·1	8th ,,	50·2	5th ,,	70·1	53·3	61·7	−3·2	59·4
	Commillah	Commillah ...	30·047†	30·084†	+·048†	North-Westerly	32·8	80·4	8th ,,	48·1	3rd ,,	77·2	51·0	64·1	−1·9	58·1
	Mymensingh	Mymensingh..	30·022	30·084	+·032	Easterly	60·2	77·4	8th ,,	46·0	3rd ,,	68·1?	49·1	58·6?	−5·2?	55·0
North Bengal.	Bogra	Bogra ..	29·997	30·064	+·033	NW	69·2	76·6	8th ,,	47·6	3rd ,,	72·4	50·2	61·3	−1·4	57·4
	Pubna	Serajgunge ..	30·024	30·073	+·037	WSW	38·7	77·3	8th ,,	45·0	2nd & 3rd Feb.	73·9	48·1	61·0	−1·5	56·1
	Rajshahye	Rampore Beauleah.	30·013	30·087	+·060	N & S Westerly	99·0	75·9	8th ,,	48·2	3rd & 5th Feb	70·6	50·6	60·6	−1·9	57·5
	Maldah ...	Maldah ..	30·005	30·000	—	NW	80·3	77·6	3rd ,,	46·4	5th ,,	76·8†	49·4†	63·1†	—	60·7
	Dinagepore	Dinagepore ...	29·954	30·083	+·054	WNW	71	76·1	8th ,,	48·8	2nd ,,	72·2	50·4	61·3	−0·2	56·5
	Rungpore	Rungpore ..	29·941	30·075	+·049	South-Westerly	67	75·0	7th ,,	44·5	2nd ,,	70·9	48·2	59·6	−0·8	55·1
	Julpigoree ..., Cooch Behar ...	Julpigoree ...	29·767	30·074	+·053	N.E, E	52·0	74·9	7th ,,	41·0	2nd ,,	66·8?	41·6	55·7?	−4·7?	54·9
	Darjeeling Hill Tracts ...	Darjeeling ...	23·938	—	+·030	ENE & Westerly	111	49·7	8th ,,	29·6	4th ,,	43·5	33·2	38·3	−1·2	37·2
North Behar.	Purneah ..., North Bhagulpore ...	Purneah ...	29·940	30·076	+·030	SW	78·5	73·2	8th ,,	47·5	2nd & 5th Feb.	69·2?	49·6	59·4?	−2·9?	52·6
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ...	29·882	30·062	+·024	WSW	116	70·4	8th Feb.	49·8	2nd & 3rd Feb.	66·5	52·7	59·6	−2·8	55·8
	Chumparun	Motihari ..	29·806	30·111	+·083	Westerly	188	75·7	8th ,,	42·9	5th ,,	67·4	47·1	57·3	−2·4	55·8
	Sarun	Chupra* ...	29·883	30·092	+·049	Westerly	74·2	59·5?	5th & 7th Feb.	47·1	2nd ,,	56·2?	48·5	52·4?	−9·1?	55·9
South Behar.	Shahabad	Dehree ...	29·717	30·097	+·047	SSW	158·4	82·3	8th ,,	47·0	5th ,,	74·6	52·1	63·4	+1·1	56·9
		Buxar ...	29·831	30·093	+·032	WSW	137·5	78·4	8th ,,	46·4	4th & 5th Feb	71·0	49·3	60·2	−1·7	54·3
		Arrah ...	29·868	30·080	+·054	SW	19·4	70·3	8th ,,	44·9	5th ,,	70·5	48·5	59·0	−2·1	52·4
	Gya	Gya ...	29·710	30·110	+·045	Calm & SSW	141·6	79·9	8th ,,	47·5	5th ,,	73·3	50·6	62·0	−3·1	56·2
	Patna	Bankipore ...	29·887	30·085	+·035	W & SW	73·2	75·3	8th ,,	43·9	5th ,,	69·8	49·4	59·6	−2·9	55·7
	South Bhagulpore ..., Monghyr ...	Bhagulpore ...	29·903	30·075	+·017	Calm	84	73·8	8th ,,	47·0	5th ,,	69·1	51·1	60·1	−2·2	55·9
	Sonthal Pergunnahs ...	Deomka ...	29·564	30·099	+·061	Calm	59·1	76·9	8th ,,	46·9	5th ,,	72·7	50·4	61·6	−2·5	56·4
Chota Nagpore.	Hazaribagh	Hazaribagh ...	28·003	30·115	+·039	NW	212·4	81·5	8th ,,	44·9	4th ,,	72·1	48·9	60·5	−2·7	56·0
	Lohardugga ..., Manbhoom ...	Ranchee ...	27·875	30·093	+·033	Calm	180·8	85·1	8th ,,	45·5	6th ,,	73·1	49·2	61·2	−1·8	59·1
	Singbhoom	Chyebassa ...	29·301	30·106	+·042	Calm	16·5	85·8	8th ,,	48·8	5th ,,	80·6	52·3	66·5	−1·2	61·6

* Means of six days.
† Do. of five ,,

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 24 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 8th of February 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. — RAINFALL. — Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
78	0·7	Nil	Nil	0·16	Nil	0·17	−0·17	44·12	55·82	−11·70	0·0	0·3	Pooree ...	Pooree	Orissa.
75	0·4	Nil											Gopalpore ...		
69	1·6	Nil											False Point ...		
69	0	Nil	Nil	0·22	Nil	0·24	−0·24	51·87	52·25	−0·38	0·0	0·4	Cuttack ...	Cuttack	
73	0	Nil	Nil	0·32	Nil	0·35	−0·35	52·95	53·69	−0·74	0·0	0·6	Balasore ...	Balasore	
77	1·8	Nil	0·03	0·50	0·03	0·59	−0·56	55·02	62·98	−7·96	0·3	0·7	Saugor Island ...	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
59	0·6	Nil	Nil	0·41	Nil	0·46	−0·46	62·20	52·02	+10·18	0·0	0·5	Midnapore ...	Midnapore	
75	1·0	Nil	Nil	0·47	0·13	0·55	−0·42	62·62	52·21	+10·41	0·0	0·7	Calcutta ...	24-Pergunnahs ...; Howrah ... ...; Hooghly	
67	0·4	Nil	Nil	0·29	Nil	0·42	−0·42	56·18	47·12	+9·06	0·0	0·7	Burdwan ..	Burdwan	
70	0	Nil	Nil	0·11	0·03	0·13	−0·10	52·24	52·39	−0·15	0·0	0·5	Bankoora ...	Bankoora	
72	0	Nil	Nil	0·26	Nil	0·33	−0·33	58·08	51·93	+6·15	0·0	0·6	Raneegunge ...	Beerbhoom ... ...; West Burdwan ...	
85	0	Nil	Nil	0·25	Nil	0·29	−0·29	48·78	50·84	−2·06	0·0	0·6	Berhampore ..	Moorshedabad	
77	0·1	Nil	Nil	0·30	Nil	0·39	−0·39	54·74	49·53	+5·21	0·0	0·6	Krishnaghur ...	Nuddea	
88	0	Nil	Nil	0·32	0·05	0·42	−0·37	44·49	53·66	−9·17	0·0	0·6	Jessore ...	Jessore ... ...; Khoolna	
79	0	Nil	Nil	0·22	0·43	0·22	+0·21	126·20	114·03	+12·17	0·0	0·5	Chittagong ...	Chittagong	East Bengal.
		Nil	Nil	0·20	0·74	0·23	+0·51	73·14	81·89	−8·75	0·0	0·5	Demagiri ...	Chittagong Hill Tracts	
77	0	Nil	Nil	0·32	0·18	0·26	+0·08	72·53	77·38	−4·85	0·0	0·6	Barrisal ...	Backergunge	
80	0	Nil	Nil	0·30	1·09	0·35	+0·74	106·85	107·53	−0·68	0·0	0·6	Noakholly ...	Noakholly	
83	0	Nil	Nil	0·28	0·13	0·38	−0·25	48·05	56·12	−8·07	0·0	0·6	Furreedpore ...	Furreedpore	
70	0	Nil	Nil	0·32	0·37	0·39	−0·02	56·49	60·21	−3·72	0·0	0·6	Dacca ...	Dacca	
83	0	Nil	Nil	0·21	0·54	0·26	+0·28	62·62	69·59	−6·97	0·0	0·5	Commillah ...	Tipperah	
88	0·3	Nil	Nil	0·18	Nil	0·27	−0·27	67·24	67·60	−0·36	0·0	0·5	Mymensingh ..	Mymensingh	
81	0	Nil	Nil	0·11	Nil	0·19	−0·19	45·64	57·42	−11·78	0·0	0·4	Bogra ...	Bogra	North Bengal.
86	0	Nil	Nil	0·27	Nil	0·31	−0·31	42·05	53·69	−11·64	0·0	0·5	Serajgunge ..	Pubna	
77	0	Nil	Nil	0·24	Nil	0·35	−0·35	47·23	54·23	−7·00	0·0	0·6	Rampore Beauleah	Rajshahye	
73	1·0	Nil	Nil	0·10	0·02	0·19	−0·17	43·35	54·42	−11·07	0·0	0·5	Maldah ..	Maldah	
84	0	Nil	Nil	0·06	Nil	0·07	−0·07	48·57	57·49	−8·92	0·0	0·4	Dinagepore ...	Dinagepore	
87	0	Nil	Nil	0·04	0·01	0·07	−0·06	58·42	73·91	−15·49	0·0	0·3	Rungpore ...	Rungpore	
86	1·1	Nil	Nil	0·01	Nil	0·03	−0·03	88·16	111·26	−23·10	0·0	0·1	Julpigoree ...	Julpigoree ... ...; Cooch Behar	
84	5·7	Nil	0·04	0·10	0·07	0·12	−0·05	100·67	121·50	−20·83	0·8	0·5	Darjeeling .	Darjeeling Hill Tracts	
88	0·1	Nil	Nil	0·09	Nil	0·12	−0·12	50·65	58·79	−8·14	0·0	0·4	Purneah ...	Purneah ... ...; North Bhagulpore ...	North Behar.
			Nil	0·07	Nil	0·11	−0·11	42·49	43·68	−1·19	0·0	0·3	Mozufferpore ...	Mozufferpore	
80	0·3	Nil	Nil	0·07	Nil	0·11	−0·11	42·05	44·83	−2·78	0·0	0·3	Durbhunga ...	Durbhunga	
80	1·0	0·01	Nil	0·11	0·13	0·14	−0·01	43·21	46·95	−3·74	0·0	0·4	Motihari ...	Chumparun	
84	0·7	Nil	Nil	0·05	Nil	0·07	−0·07	40·09	43·05	−2·96	0·0	0·3	Chupra ...	Sarun	
70	0·4	Nil	Nil										Dehree ...		South Behar.
70	0·7	Nil	Nil	0·12	Nil	0·17	−0·17	42·80	40·23	+2·57	0·0	0·4	Buxar ...	Shahabad	
86	0·7	Nil	Nil								0·0		Arrah ...		
84	0·9	Nil	Nil	0·17	Nil	0·22	−0·22	50·81	41·87	+8·94	0·0	0·5	Gya ...	Gya	
74	1·3	Nil	Nil	0·13	Nil	0·16	−0·16	49·00	41·50	+7·50	0·0	0·4	Bankipore ...	Patna	
78	0·1	Nil	Nil	0·13	Nil	0·19	−0·19	50·94	43·36	+7·58	0·0	0·4	Bhagulpore ...	South Bhagulpore ...; Monghyr	
75	0	Nil	Nil	0·17	Nil	0·23	−0·23	54·46	51·03	+3·43	0·0	0·4	Doomka ...	Sonthal Pergunnahs...	
59	0·4	Nil	Nil	0·13	Nil	0·15	−0·15	57·12	50·62	+6·50	0·0	0·4	Hazaribagh ...	Hazaribagh	Chota Nagpore.
61	0	Nil	Nil	0·23	Nil	0·27	−0·27	50·85	49·37	+1·48	0·0	0·7	Ranchi ...	Lohardugga	
			Nil	0·37	Nil	0·48	+0·48	47·23	47·43	−0·23	0·0	0·7		Manbhoom	
51	0	Nil	Nil	0·33	Nil	0·42	−0·42	40·65	51·98	−11·33	0·0	0·8	Chyebassa ...	Singbhoom	

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. ... denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ... years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional ...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of February 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 2nd February 1889.	Sunday, 3rd February.	Monday, 4th February.	Tuesday, 5th February.	Wednesday, 6th February.	Thursday, 7th February.	Friday, 8th February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA	Pooree ...	Pooree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'24	41'07	51'82
		Khurdah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'16	44'88	56'61
		Banpur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	Nil	136'78	50'45
		False Point ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'26	54'24	65'04
		Gop ...											?		?
		Pipli ...											?		?
	Cuttack ...	Jagatsingpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0'06	56'21	47'10
		Banki ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'21	43'81	50'98
		Cuttack ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'27	52'68	56'61
		Kendrapara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'16	45'21	53'55
		Jajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'50	61'45	54'52
		Dharmsala ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56'98	?
		Salipore ...											?		?
	Balasore ...	Chandbali ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'41	51'05	52'68
		Bhuddruck ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'54	49'01	52'94
		Sorah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'24	49'62	51'28
		Balasore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'31	56'98	58'06
		Jellasore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'49	55'85	53'35
		Baripodah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'12	54'18	53'90
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	......	......	0'08	......	......	......	......	1	0'08	0'08	0'58	50'78	61'84
		Saugor Island	......	......	......	......	......	......	......	Nil	Nil	Nil	0'58	52 09	67'72
		Tumlook ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'08	64'80	51'88
		Midnapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'37	64'71	49'25
		Ghattal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 34	57'09	54'88
		Kukrahaty ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	65'37	?
		Heria ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	52'14	?
		Bhagwanpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51'00	?
		Garbeta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	64'69	?
	24-Pergunnahs	Diamond Harbour ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'60	57'18	59 15
		Canning Town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56'12	?
		Alipore Jail ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 50	62'22	56'05
		Barrackpore...	......	......	......	......	......	......	......	Nil	Nil	0'15	0'68	61'81	48'89
		Dum-Dum ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'47	64'18	52'17
		Baraset ...	......	......	......	......	......	......	......	Nil	Nil	0'80	0'60	65 55	49'87
		Buseerhat ...	......	......	......	......	......	......	......	Nil	Nil	0'10	0'40	51 68	54'84
	Howrah ...	Howrah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'41	65'72	52'52
		Moheeruka ... (*Ooloberiah.*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0 42	59'20	52'40
	Hooghly ...	Serampore ...	......	......	......	......	......	......	......	Nil	Nil	0'25	0'68	67'20	50'79
		Hooghly ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 65	66 91	48'77
		Jehanabad ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'66	61'70	55'70
	Burdwan ...	Culna ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'43	61'60	44'60
		Burdwan ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'34	46'85	48'19
		Cutwa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 46	60'68	48'21
		Raneegunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 84	58'43	46'84
		Mankur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43'37	?
	Bankoora ...	Bankoora ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'34	49'10	51'64
		Bishenpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'02	54 08	51'50
		Maliara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'13	50'63	51'99
		Khatra ...	......	......	......	......	......	......	......	Nil	Nil	0'10	0'03	55'12	54'21
		Indas ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41'40	?
		Kotalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46'73	?
		Anda ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	38 06	?
		Gangajalghati	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56'70	?
		Raipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55'17	?
		Sonamukhi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46'33	?
	Beerbhoom ...	Bh. Soory ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'47	54'43	54'16
		Hetampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'22	48'54	54'50
		Rampore Haut	......	......	......	......	......	......	......	Nil	Nil	Nil	0 27	70'92	51'71
		Bolpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	63'00	?
		Murarai ...											?		?
	Nuddea ...	Ranaghat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'38	64'23	47'39
		Kishnaghur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'47	69'42	46'23
		Chooadanga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'39	53'17	51'42
		Meherpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'35	50'06	47'85
		Kooshtea ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'36	36'80	54'75
	Khoolna ...	Satkhira ...	......	......	......	......	......	......	......	Nil	Nil	0'08	0'41	39'13	55'46
		Bagirhat ...	......	......	......	......	......	......	......	Nil	Nil	0'10	0'52	50'76	63'02
		Khoolna ...	......	......	......	......	......	......	......	Nil	Nil	0'08	0'39	48'82	55'29
	Jessore ...	Narail ...	......	......	......	......	......	......	......	Nil	Nil	0'09	0'36	30'81	46'52
		Jessore ...	......	......	......	......	......	......	......	Nil	Nil	0'10	0'39	57'10	54'75
		Jhenidah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'41	36'29	53'72
		Magoorah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'38	143'55	48'72
		Bongong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'51	49'45	52'28
	Moorshedabad	Kandi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'19	51'67	50'28
		Berhampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'36	42'43	51'67
		Lalbagh ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'20	48'11	51'04
		Azimgunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'36	?	51'58
		Jungipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'35	48'46	49'45
		Lalgola ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'26	58'09	51'46
		Jiagunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46'45	?
		Akhrigunj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46'67	?
		Patkabari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	44'29	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	......	......	......	......	......	......	......	Nil	Nil	0'37	0'12	146'71	135'91
		Chittagong ...	......	......	......	......	......	......	......	Nil	Nil	0'59	0 81	105'67	94'27
		Kutubdia ...	......	......	......	......	......	......	......	Nil	Nil	0'38	?	117'63	?
		Satkania ...	......	......	......	......	......	......	......	Nil	Nil	0'04	?	91'45	?
	Chittagong Hill Tracts.	Rangamati ...	......	......	......	......	......	......	......	Nil	Nil	0'57	0'41	75'42	84'11
		Ruma ...	......	......	......	......	......	......	......	Nil	Nil	0'90	0'85	70'85	75'85
	Backergunge	Patuakhally ...	......	......	......	......	......	......	......	Nil	Nil	0'67	0'45	66'27	87'09
		Perozepore ...	......	......	......	......	......	......	......	Nil	Nil	0'69	0'44	61'96	70'49
		Burrisal ...	......	......	......	......	......	......	......	Nil	Nil	0'04	0'24	66'63	68'15
		Bhola ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0'18	75'28	81'74

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of February 1889—*contd.*

Meteorological Division.	District.	Station.	Rainfall.							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 2nd February 1889.	Sunday, 3rd February.	Monday, 4th February.	Tuesday, 5th February.	Wednesday, 6th February.	Thursday, 7th February.	Friday, 8th February.	Number of rainy days.	Rainfall of week.				
EAST BENGAL—*concld.*		*Gournaddi* ...	...	...	...	...	...	...	...	Nil	Nil	1·00	?	50·38	?
		Bauphal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	98·36	?
	Noakholly	Noakholly .	...	...	...	...	...	...	...	Nil	Nil	1·08	0·84	109·07	108·15
		Fenny .	...	...	...	...	...	...	...	Nil	Nil	1·10	0·85	105 63	106 86
		Harishpore ...	...	...	...	...	...	...	...	Nil	Nil	0·32	?	130·14	?
		Ramganj ..	...	...	...	...	...	...	...	Nil	Nil	0 78	?	89·18	?
	Furreedpore	Madaripore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·30	46·11	56·14
		Furreedpore ..	...	...	...	...	...	...	...	Nil	Nil	0 ·40	0·84	53·11	56·62
		Goalundo .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·49	44·95	53·38
	Dacca ...	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0·11	0·50	61·60	70·84
		Dacca .	...	...	...	...	...	...	...	Nil	Nil	0 67	0·36	53·57	58·73
		Narainganj	...	...	...	...	...	...	...	Nil	Nil	0·44	0·39	63·37	60·00
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	0·02	0·29	47·45	50·32
		Joydebpore ..	...	...	...	...	...	...	...	Nil	Nil	0·13	?	59·38	?
	Hill Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	0·52	0·24	54·42	61 91
	Tipperah ...	Comilla ..	...	...	...	...	...	...	...	Nil	Nil	0 13	0·34	69·04	70·29
		Chandpore .	...	...	...	...	...	...	...	Nil	Nil	0·60	0·19	57 88	78 10
		Brahmunberia	...	...	...	...	...	...	...	Nil	Nil	0·91	0·25	70·07	61·51
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	0·48	?	60·80	?
		Nasirnagar ...	...	...	...	...	...	...	...	Nil	Nil	0·40	?	58·99	?
		Daudkandi ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·18	?
		Kasba ...	...	...	...	...	...	...	...	Nil	Nil	0 05	?	56 65	?
		Laksham ..	...	...	...	...	...	...	...	Nil	Nil	1·90	?	80·01	?
	Mymensingh..	Kishoregunge	...	...	...	...	...	...	...				0·27	83·82	70·36
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0 31	38 88	55·73
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·29	69·81	74·18
		Jamalpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·37	66·49	65·57
		Netrokona .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	77·62	71·87
		Subornakhali	...	...	...	...	...	...	...			Nil	?	62·08	?
		Durgapore .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	109·81	?
		Sherepore town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Dewanganj .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·76	?
NORTH BENGAL.	Pubna	Pubna ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 31	40·19	54·15
		Seraigunge ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	43·89	53 11
	Bogra	Sherpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	42 59	57·98
		Nowkhilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 07	50·67	54·79
		Bogra ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 41	42·87	60·99
		Panchbibi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 17	46·44	55·94
	Rajshahye	Beauleah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 39	32·85	53·29
		Nattore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	61·63	55 23
		Naogaon .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·78	?
		Lalpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39·68	?
		Manda .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	33·64	?
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	Nil	Nil	0·03	0·17	51·58	51·88
		Chanchal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	35·07	56·91
		Gajol ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39·58	?
		Sibganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	48·35	?
	Dinagepore ...	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	40·72	58·36
		Churamon ...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	49·07	53·19
		Raigunge ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	62·21	59·36
		Dinagepore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	59 22	64·14
		Baloorghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	41·62	53 50
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·45	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	48·04	61·74
		Rungpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	54·87	74·74
		Kurigram ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	75·90	73·88
		Bagdogra (*Nilphamari*) .	...	...	...	...	...	...	...	Nil	Nil	0·02	0·07	55·25	85·27
		Ulipore ...	...	...	...	...	...	...	...	Nil	Nil	N	?	55·90	?
	Julpigoree ...	Julpigoree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	106·22	117·75
		Alipore Doar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	81·34	?
		Fallacotta ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	91 77	?
		Debiganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62 04	?
		Bhogotpore	...	...	...	...	...	...	...	Nil	Nil	0 37	?	?	?
		Nagrakatta.													
	Cooch Behar..	Dinhatta ..	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	91·95	93·05
		Cooch Behar...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	91·88	118 60
		Mekligunge...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	76 48	108·14
		Mathabhanga...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	74 2[illegible]	116·24
	Darjeeling Hill.	Buxa ...	...	...	0·08	...	...	...	...	1	0·08	0·18	0·14	157·77	192 95
		Silliguri ...	...	0·03	...	...	...	...	...	1	0·03	0·03	0 01	8[illegible]·66	108·72
		Darjeeling ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·23	90·02	108 [illegible]
		Kalimpong ...	...	0 06	...	...	...	...	...	1	0·06	0·06	0·11	71 90	83 65
NORTH BEHAR	Purneah ...	Kissengunge...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	49·36	70 60
		Arrareah ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	53·11	63·94
		Purneah ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	46·47	61·56
		Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Balrampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Mastari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Kaliaganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·31	?
	North Bhagulpore.	Maddapore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	59·78	49·81
		Soopool ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·09	44·53	46·46
		Pratabganj ...	...	...	...	...	...	...	...	Nil	Nil		?	40·70	?
	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	44·24	46·31
		Durbhunga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	38·44	46·11
		Madhubani ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·11	43·45	45·32
		Rusera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·61	?
		Bahera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·19	?
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	35·64	45·25
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	44·39	43·84
		Hajipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	47·42	42 42
		Paroo ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·30	?
		[illegible] ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·96	?
		Sheohar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·14	?
		Pupri ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·56	?
	Champarun...	Motihari ...	...	...	...	...	...	...	...	Nil	Nil	0·26	0·13	38·38	44·69
		Bettiah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	47 39	48·9[illegible]
		[illegible] ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34·[illegible]9	?
		[illegible] ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41 54	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of February 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 2nd February 1889.	Sunday, 3rd February.	Monday, 4th February.	Tuesday, 5th February.	Wednesday, 6th February.	Thursday, 7th February.	Friday, 8th February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge ...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	39·29	44·97
		Sewan ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	43·18	44·10
		Chuprah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	37·73	40·94
SOUTH BEHAR	Shahabad	Buxar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	42·07	38·73
		Dehree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	43·97	39·18
		Bhuboosh ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	40·67	41·64
		Sasseram ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	42·33	40·94
		Arrah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	45·08	40·49
		Mohaniah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Gya ..	Aurungabad...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	58·97	43·08
		Gya ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·29	52·08	46·97
		Nowadah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	49·97	40·38
		Jehanabad ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	47·19	40·90
		Arwal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·51	?
		Daudnagar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·70	?
		Sherrghati ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34·25	?
		Rajauli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·06	?
	Patna ...	Patna ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	41·74	42·14
		Dinapore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	43·70	41·66
		Behar ...	...	...	...	...	...	...	...				0·24		42·24
		Barrh ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	56·70	39·96
		Bickram ...	...	...	...	...	...	...	...				?	39·68	?
		Hilsa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47·69	?
	Monghyr	Begooserai ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·23	49·22	40·43
		Monghyr ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	55·91	46·66
		Jamui ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	51·29	43·38
		Gogri ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·04	?
		Sheikpura ...	...	...	...	...	...	...	...				?	56·8	?
	South Bhagulpore	Bhagulpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	55·03	42·35
		Banka ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	43·22	45·00
		Kolgong ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52·70	?
	Sonthal Pergunnahs	Rajmehal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	47·90	52·11
		Godda ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·23	51·29	45·40
		Pakour ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	64·35	55·52
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·30	53·29	53·55
		Deoghur ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·37	53·38	50·51
		Jamtara ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	56·53	45·42
		Mohagama ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Nonihat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29·06	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*). ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	56·87	47·80
		Hazaribagh ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	54·06	48·46
		Semtaguruh ...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	55·60	45·79
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	55·52	48·38
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0·02	63·35	62·51
		Barhi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·23	?
		Chatra ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·15	?
		Karagdeha ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·83	?
		Ramghar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·33	?
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·01	46·85	52·52
		Ranchi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	52·89	52·68
		Palamow ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·30	52·83	45·65
		Sili ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Balumat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·42	?
		Hosseinabad...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Garwah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·93	?
	Singbhoom	Chyebassa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·42	40·65	52·13
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·95	?
		Ghatsilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·64	?
		Baharagora...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·55	?
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	57·49	49·44
		Gobindpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·52	36·95	45·57
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·33	?
		Burrabhoom...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·54	?
		Jhalda ...													
		Gaus ...													

Explanation. Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 12th February* 1889

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 8TH FEBRUARY 1889.

The meteorology of the previous week had been extremely important in Bengal from the fact that a large and influential disturbance had passed through the province from Central and Northern India, which had given general, and in many cases heavy rain, particularly in Behar and North Bengal. The depression had passed rapidly over the province and on the last day of the previous week it was in East Bengal, and on the first day of the present week it had quite disappeared in an easterly direction. With the disappearance of the depression weather conditions again became normal in Bengal for the north-east monsoon, temperature fell exceedingly rapidly in Bengal and Behar, and pressure rose, while skies cleared quickly, and rainfall ceased, except for one or two showers of no importance. The return of the weather conditions to those of normal north-east monsoon character took place on the 2nd and 3rd, and for the remainder of the week a fairly steady northerly and north-westerly wind current has been blowing over the province, and conditions generally have been those of a rather strongly pronounced cold weather type.

Pressure.—The principal variation in the pressure during the week was the very rapid rise which took place on the 2nd after the passing away of the depression. This rise in many cases was considerably larger than a tenth of an inch. This was generally followed by a smaller but steady increase of pressure, which continued up to about the 5th instant, but from this date, to the end of the week, pressure fell; the fall from the 7th to the 8th being again rather rapid. For the whole province for the week, taking into consideration only those stations from which observations have been received for a series of years, and which therefore yield reliable averages, the mean pressure has been 0.042 inch in excess of the normal for the same period. This excess has been largest in South and South-East Bengal, where at such stations as Dacca and Jessore it equals about 0.06 to 0.07 inch, and smallest in the north of the province, where the average excess is only about 0.03 inch.

Temperature.—As before mentioned, the principal change in the temperature of the province has been the rapid fall which accompanied the setting in of the normal northerly current at the commencement of the week. The fall was so large as to bring temperature considerably below the normal, and for the whole week the mean temperature of the province has been about 2° below the normal. This defect has been largest in South-West Bengal, where it has equalled no less than 3°.

The general range of temperature for the week, and its variation from the normal, are clearly seen in the following table, where the average maximum, minimum, and mean temperatures at nine typical stations in different districts of the province are compared with the normal values for the same period, and from which it will be seen that during the past week the day temperatures have been particularly low :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 8th February 1889.

	Normal mean maximum temperature for the week ending 8th February	Actual mean maximum temperature for the week ending 8th February 1889	Variation of actual mean from the normal	Normal mean minimum temperature for the week ending 8th February	Actual mean minimum temperature for the week ending 8th February 1889	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 8th February.	Actual mean daily temperature for the week ending 8th February 1889.	Variation of actual mean from the normal.
Cuttack ...	86.8	87.4	+0.6	61.8	62.4	+0.6	74.3	74.9	+0.6
Calcutta ...	79.5	75.2	−4.3	56.7	54.0	−2.7	68.1	64.6	−3.5
Dacca ...	79.8	76.1	−3.7	56.1	53.3	−2.8	67.9	64.7	−3.2
Burdwan ...	79.6	76.8	−2.8	55.2	49.7	−5.5	67.4	63.3	−4.1
Patna ...	75.0	69.8	−5.2	49.9	49.4	−0.5	62.5	59.6	−2.9
Gya ...	77.3	73.3	−4.0	52.9	50.6	−2.3	65.1	62.0	−3.1
Purneah ...	76.3	69.2	−7.1	48.2	49.6	+1.4	62.3	59.4	−2.9
Hazaribagh ...	74.8	72.1	−2.7	51.6	48.9	−2.7	63.2	60.5	−2.7
Darjeeling ...	42.7	43.5	+0.8	31.5	33.2	+1.7	37.1	38.3	+1.2

Rainfall.—**As before stated, has been practically absent throughout the week.**

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 8th of February 1889:—

Meteorological Divisions.	Temperature						Rainfall									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average	Normal average	Average.	Normal average.
Orissa	93 4	54 0	82 7	62 9	72 8	+0 9	Nil	0 24	—0 24	0·0	0 4	—0 4	Nil	0·25	50·54	53·74
South-West Bengal	84 3	43 2	76 3	52 8	64 6	—3 0	Nil	0 34	—0 34	0 0	0 6	—0·6	0 04	0·41	55·38	52 40
East Bengal	81 1	46 0	74 8	51 6	63 2	—2 5	Nil	0 25	—0 25	0 0	0 6	—0·6	0·39	0 31	71 42	74·61
North Bengal	77 6	41 0	71 9	48 8	60 4	—1 8	Nil	0 09	—0 09	0 0	0 4	—0 4	Nil	0·78	55 58	70 58
North Behar	75 7	42 9	67 7	49 8	58 8	—2 7	Nil	0 08	—0 06	0 0	0 4	—0·4	0·02	0·11	44 51	46·91
South Behar	82 3	43 9	71 5	50 2	60 9	—1 9	Nil	0 15	—0 15	0 0	0 5	—0 5	Nil	0·19	50 09	44·46
Chutia Nagpur	83 1*	44 9*	72 6*	49 1*	60 9*	—2 3*	Nil	0·21	—0 21	0 0	0 6	—0·6	Nil	0·27	50 97	49·83

* Chyebassa not included

Meteorological Office, Bengal,
The 12th February 1889

A. Pedler,
Offg Meteorological Reporter to the Govt. of Bengal.

MEMORANDUM.

THE principal Municipalities in Bengal presented during the week ending 26th January 1889, a birth-rate of 22·1 and a death-rate of 24·5 per 1,000 of population against a birth-rate of 24·8 and a death-rate of 24·1 per 1,000 in the preceding week ending 19th January.

2. The Municipalities which returned the highest proportions of births and deaths are:—

Births.

	Ratio per *mille*
Purneah ...	38 1
Utterpara ...	37 7
Monghyr ...	37 1
Rampore Beauleah ...	36 8
Puri ...	35 7
Serampore ...	35 3
Naraingunj ...	34 1
Durbhanga ...	31 5
Bhagulpore ...	30 8

Deaths.

	Ratio per *mille.*
Suburbs of Calcutta	49 8
Puri ...	41 1
Comillah ...	38 5
Purneah ...	38 1
Utterpara ...	37 7
Naraingunj ...	37 3
Serampore ...	33 4

3. The mortality from the principal diseases which is shown below did not exhibit any noticeable differences in comparison with the death rates from the same causes during the preceding week:—

	Ratio per *mille* during the weeks ending— 26th Jan 1889.	19th Jan 1889.
Cholera ...	3 1	2 4
Small-pox ...	·2	
Fever ...	8 4	8 9
Bowel-complaints ...	4 4	4 4
Injury ...	·4	·2
Other causes ...	8 0	8 2

4. Small-pox which appears to have prevailed noticeably in the Patna town only was attended with three deaths. Injury did not exhibit any local severity. Cholera, Fever, Bowel-complaints, and the maladies returned under the head of "Other causes" caused the highest mortality in the following Municipalities:—

Cholera.

	Ratio per *mille*
Suburbs of Calcutta	9 9
Howrah	7·4

Fever.

	Ratio per *mille.*
Comillah	30 8
Purneah	27 7
Jessore	24 5

Bowel-complaints.

	Ratio per *mille.*
Puri ...	10 5
Serampore	9 8
Suburbs of Calcutta	9 7

Other causes.

	Ratio per *mille.*
Puri ...	21 0
Naraingunj ...	16 6
Suburbs of Calcutta	14 9
Serampore	13 7
Bhagulpore ...	12 7

5. In relation to *Sex, Class* and *Age*, the mortality of the week was distributed as follows:—

According to Sex.

	Ratio per *mille.*
Males ...	25 9
Females ...	23 0
Ratio of male deaths to every 100 female deaths ...	127

According to Class.

	Ratio per *mille*
Christians ...	34 8
Hindus ...	25 5
Mahomedans ...	22 2

According to Age

	Ratio per *mille*
Under 1 year ...	202 4
1 and under 5 years ...	22 8
5 " 10 " ...	11 9
10 " 15 " ...	8 6
15 " 20 " ...	18 8
20 " 30 " ...	16 9
30 " 40 " ...	15·0
40 " 50 "	19 8
50 " 60 "	25 7
60 years and upwards ..	41 7

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Offg. Sanitary Commissioner for Bengal.

The 11*th February* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 26th January 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan	18,063	16,017	34,080	8	5	13	12·2	7·6	19·8	160	1		9	3	.	4	17	1·5	.	13·7	4·6	..	6·1	25·9	27·5	7	10	20·2	33·5	70
Midnapore ...	Midnapore	16,927	16,633	33,560	3	3	6	4·6	4·6	9·3	100	..	.	1	2	..	6	9	..	..	1·5	3·1	..	9·3	13·9	21·7	5	4	15·4	12·5	125
Hughli ...	Hughli and Chinsurah ...	19,179	19,530	38,719	7	11	18	9·4	14·8	24·2	63	1	..	8	4	1	2	16	1·3	...	10·7	5·4	1·3	2·7	21·5	30·9	7	9	19·0	24·0	77
Serampore ...	Serampore	13,559	12,937	26,496	9	9	18	17·6	17·6	35·3	100	1		3	5	1	7	17	2·0	...	5·9	9·8	2·0	13·7	33·4	33·4	11	6	41·2	24·1	183
	Utterpara	3,046	2,464	5,510	2	2	4	18·8	18·8	37·7	100	1	..	1	1		1	4	9·4	...	9·4	9·4	...	9·4	37·7	47·2	4	...	68·3	..	No female death.
Howrah ...	Howrah	53,153	37,660	90,813	18	16	34	10·3	9·2	19·5	112	13	..	9	11	.	9	42	7·4	...	5·1	6·3	.	5·1	21·0	28·6	27	15	26·4	20·7	180
	Bali	7,836	6,979	14,815	3		7	10·5	14·0	24·6	75	2	..	1	1	..	3	7	7·0	...	3·5	3·5	..	10·5	24·6	31·6	3	4	19·9	29·8	75
24-Pergunnahs ...	Suburbs of Calcutta ...	147,205	104,234	251,439	51	41	92	10·5	6·5	19·0	124	48	1	70	47	3	72	241	9·9	·2	14·5	9·7	·6	14·9	49·8	39·3	137	104	43·4	51·9	131
Nuddea ...	Kishnaghur	13,263	14,214	27,477	5	6	11	9·5	11·3	20·8	83	2	..	8	.	..	2	12	3·8	...	15·1	..	...	3·8	22·7	13·9	4	8	15·7	29·3	50
	Ranaghat	4,028	4,655	8,683	2	1	3	12·0	6·0	18·0	200	...	.	..	1	.	..	1		...	..	6·0	..	...	6·0	... ..	...	1	...	11·8	No male death.
	Santipore	13,708	15,979	29,687	4	3	7	7·0	5·3	12·3	133	.	...	...	1	..	...	1		..	..	1·7	...	...	1·7	10·5	1	...	3·8	..	No female death.
Jessore ...	Jessore	4,830	3,665	8,495	...	..	.	.	...	...	... ..		..	4	.	..	..	4		...	24·5		..	...	24·5	13·4	1	3	10·8	42·6	33
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	7	7	14	18·4	18·4	36·8	100	..	...	7	.	...	2	9	..	...	18·4	...	..	5·2	23·6	26·3	5	4	24·2	23·0	123
Darjiling ...	Darjiling*	5,029	2,947	7,976	4	..	4	26·1	...	26·1	No female birth.	..	..	1	..	..	2	3	..	..	6·5	...	..	13·0	19·6	13·0	2	1	20·7	17·6	200
Dacca ...	Dacca	42,782	37,379	80,161	15	12	27	9·7	7·8	17·5	125	3	...	7	4	1	7	22	1·9	...	4·5	2·6	·6	4·5	14·3	20·8	15	7	18·2	9·7	214
	Narainganj	7,605	4,956	12,561	6	2	8	24·8	8·3	33·1	300	2	..	2	1	...	4	9	8·3	...	8·3	4·1	...	16·6	37·3	82·8	8	1	54·7	10·5	800
Chittagong ...	Chittagong	13,340	8,796	22,130	3	2	5	7·0	4·7	11·7	150	...	...	2	1	1	4	8	..	...	4·7	2·3	2·3	9·4	18·8	4·7	3	5	11·7	29·6	60
Tipperah ...	Comillah	8,153	5,353	13,506	1	5	6	3·9	19·2	23·1	20		..	8	..	...	2	10	..	...	30·8	.	...	7·7	38·5	19·3	6	4	35·3	38·9	150
Patna ...	Patna City	78,762	81,475	160,237	29	25	54	9·4	8·1	17·5	116	1	3	12	9	...	14	39	·3	1·0	3·9	2·9	...	4·5	12·7	15·3	20	19	13·2	12·1	105
Gya ...	Gya	38,290	37,831	76,121	14	15	29	9·6	10·2	19·8	93	3	...	16	1	1	9	30	2·0	...	10·9	·7	·7	6·1	20·5	19·8	12	18	16·3	24·7	66
Shahabad ...	Arrah	20,960	22,505	43,465	9	10	19	10·7	12·0	22·7	90	...	...	5	1	...	1	7	..	...	6·0	1·2	...	1·2	8·4	12·0	3	4	7·4	9·2	75
Mozufferpore ...	Mozufferpore	23,084	19,658	42,742	6	6	12	7·3	7·3	14·6	100	...	...	1	.	...	4	5	...	...	1·2	...	...	4·9	6·1	8·5	3	2	6·3	5·3	150
Durbhanga ...	Durbhanga	33,774	32,322	66,096	20	20	40	15·7	15·7	31·5	100	...	...	17	5	..	9	31	...	...	13·4	3·9	..	7·1	24·4	22·8	23	9	33·9	14·5	244
Sarun ...	Chupra	26,044	27,205	53,249	11	17	28	10·7	16·6	27·3	64	...	...	5	..	1	4	10	...	...	4·9	...	1·0	3·9	9·8	17·6	6	4	12·0	7·6	150
Bhagulpore ...	Bhagulpore	29,640	27,813	57,453	20	14	34	18·1	12·7	30·8	142	...	...	2	2	...	14	18	...	...	1·8	1·8	...	12·7	16·3	13·6	13	5	22·8	9·4	260
Monghyr ...	Monghyr	28,154	29,366	57,520	18	23	41	16·3	20·8	37·1	78	...	..	4	5	1	10	20	...	...	3·6	4·5	·9	9·0	18·1	11·8	6	14	11·1	24·8	43
Purneah ...	Purneah	8,463	6,553	15,016	9	2	11	31·2	6·9	38·1	450	...	...	8	1	...	2	11	...	...	27·7	3·5	...	6·9	38·1	45·0	7	4	45·0	31·7	175
Puri ...	Puri	13,247	11,537	24,784	11	6	17	23·1	12·6	35·7	183	2	...	3	5	1	10	21	4·3	...	6·3	10·5	2·1	21·0	44·1	39·9	12	9	47·1	40·6	133
	Total ...	702,890	619,691	1,322,581	295	267	562	11·6	10·5	22·1	110	80	4	214	111	11	204	624	3·1	·2	8·4	4·4	·4	8·0	24·5	24·1	350	274	25·9	23·0	127

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the [illegible] remains as before as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of

DISTRICTS.	NAMES OF MUNICIPALITIES.	13 Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14 Class. Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	15 Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16 Age. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan ...	...	15	2	...	...	...	32.9	10.1	.	..	3	1	...	1	2	2	1	2	1	6	236.4	23.0	...	20.7	...	13.1	7.5	23.5	21.2	210.5
Midnapore ...	Midnapore ...	...	6	3	...	...	..	12.0	21.6	...	...	2	1	...	..	4	1	1	...	1	2	140.0	22.1	...	...	16.5	7.1	9.4	...	25.2	56.8
Hughli ...	Hughli and Chinsurah ...	..	12	4	...	...	..	19	30.5	...	.	1	2	1	1	2	1	4	...	1	3	55.1	39.0	14.9	17.2	35.1	6.8	29.7	...	15.9	62.2
Serampore ...	Serampore ...	...	15	2	...	...	...	30.9	110.9	...	...	3	1	..	2	1	...	1	3	1	5	219.7	28.8	..	46.8	23.8	...	10.5	46.2	27.2	186.9
	Utterpara ...	...	4	...	...	...	...	39.1	...	...	...	..	...		..	...	1	2	...	..	1	...	...	...	...	...	45.2	98.0	...	...	200.0
Howrah ...	Howrah ...	.	32	10	..	..	..	24.4	25.3	...	...	6	3	3		3	7	5	8	5	2	151.2	28.2	24.8	...	21.3	16.0	13.5	35.4	47.4	27.7
	Bali ...	...	6	1	...	...	...	23.3	30.7	...	...	3	..		1	.	.	2	...	..	1	430.9	..	...	48.8	...	...	37.3	...	...	71.0
24-Pergunnahs ...	Suburbs of Calcutta ...	6	170	65	...	...	77.1	39.0	35.0	...	..	35	17	13	5	15	49	33	27	19	23	352.0	51.7	34.2	14.5	43.3	43.8	33.8	41.3	58.2	102.8
Nuddea ...	Kishnaghur ...	...	6	6	...	...	...	16.7	37.7	...	...	4		1	...	1	2	...	..	1	3	419.4	..	15.1	...	25.3	21.6	...	...	24.7	90.3
	Ranaghat ...	...	1	.	..	...	.	7.1	...	..	..	..	..			.		...	..	...	1	...	...	...	...	...	...	...	...	...	91.4
	Santipore ...	...	1	.	...	...	..	2.5	.	...	...	1	..	.	..	.		...	...	..		61.5	...	...	...	...	...	...	...	...	...
Jessore ...	Jessore ...	...	..	4	...	...	.	..	54.4	.	...	1	..	...	..	.	...	...	..	...	3	268.0	...	...	...	...	...	...	...	...	340.0
Rajshahye ...	Rampore Beauleah ...	...	4	5	...	.	.	21.0	26.5	...	...	1	1	1	...	...	2	...	..	2	2	125.1	36.7	25.0	...	...	25.0	...	...	83.8	108.0
Darjiling ...	Darjiling ...	.	3	...	.	.		34.0	...	...	...	1	...	1	...	...	1	.		...	...	429.8	...	83.9	...	...	26.0	...	...	...	...
Dacca ...	Dacca ...	1	18	3	...	...	109.5	23.2	4.0	..	.	2	1	2	.		5	4	4	...	4	54.8	7.1	10.5	...	...	17.0	17.8	24.8	...	37.3
	Narainganj ...	..	3	6	...	...	...	24.7	50.6	..		3	1	...	..	...	1	2	...	1	1	559.1	45.6	...	...	...	19.5	48.6	...	66.4	79.8
Chittagong ...	Chittagong ...	1	...	7	.	...	65.3	.	23.8	..	...	2	...	...	1	2	...	.	2	...	1	184.7	...	...	20.2	43.0	...	...	46.1	...	65.3
Tipperah ...	Comillah ...	...	3	7	...	...	...	26.2	49.3	...	...	2	..	..	1		1	...	2	1	3	350.2	...	...	35.6	...	18.8	...	79.1	64.9	230.1
Patna ...	Patna City ...	...	31	8	...	...	..	13.6	10.2	...	...	7	2	4	1	4	4	2	3	4	8	84.5	7.1	12.4	3.6	15.0	7.2	4.5	8.3	14.7	30.1
Gya ...	Gya ...	...	27	3	...	...	...	23.4	9.7	...	...	7	2	1	2	1	1	1	1	2	12	213.4	16.4	7.4	15.5	9.9	3.5	4.1	5.3	15.8	121.2
Shahabad ...	Arrah ...	...	4	3	...	...	...	6.7	13.6	...	...	...	1	..	...	.		1	..	..	5	.	11.7	...	...	...	...	8.1	...	...	90.2
Mozufferpore ...	Mozufferpore ...	...	5	...	...	...	..	8.7	...	...	...	2	...		.	...	...	1	..	1	1	108.9	...	...	...	...	...	7.5	...	16.0	21.4
Durbhanga ...	Durbhanga ...	...	23	8	..	..	...	24.7	23.7	...	...	11	9	2	..	..	4	..	1	2	2	367.4	61.5	13.3	...	...	15.6	...	7.0	23.7	32.6
Sarun ...	Chupra ...	...	8	2	...	...	..	10.1	8.7	...	...	2	1	.	..	1	...	...	1	...	5	72.0	9.8	...	...	14.6	...	...	8.3	...	74.7
Bhagulpore ...	Bhagulpore ...	...	11	7	...	...	...	14.4	21.1	...	...	6	1	...	2	1	1	1	2	2	2	261.3	9.6	...	16.5	12.4	4.8	5.6	16.2	24.4	28.9
Monghyr ...	Monghyr ...		14	6	...	..	...	16.3	24.8	...	...	4	2	...	...	2	1	2	1	1	7	140.1	16.7	...	...	27.5	5.0	11.7	8.2	13.1	101.5
Purneah ...	Purneah ...	.	6	5	...	..	...	31.9	45.9	..	...	2	...	...	2	1	2	1	2	1	...	367.5	...	...	87.1	52.3	31.7	18.2	56.1	55.5	...
Puri ...	Puri ...	...	21	...	...	...	..	44.5	...	...	...	7	2	1	...	1	2	2	2	1	3	1,201.3	57.9	23.1	...	28.0	19.7	25.7	31.3	23.3	86.4
	TOTAL ...	8	449	167	...	.	34.8	25.5	22.2	...	...	118	48	30	19	36	88	66	61	47	111	202.4	22.8	11.9	8.6	18.8	16.9	15.0	19.8	25.7	71.7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 11th February 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Offg. Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of December 1888.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
226	1. Grain ...	1,686	54	1,740	67,406	1,740	67,406	
1	2. Cotton ...	......	1	1	600	1	600	
3	3. Oilseeds ...	3	......	3	85	3	85	
29	4. Salt ...	......	194	194	17,383	194	17,383	
12	5. Piece-goods ...	......	28	28	21,200	28	21,200	
1	6. Metal ...	1	......	1	160	1	160	
3	7. Building materials	......	10	10	99	10	99	
759	8. Miscellaneous ...	306	220	526	53,353	526	53,353	
9	9. Fuel ...	18	68	86	967	86	967	
7 rafts	10. Timber ...	303 c. ft.	43 c. ft.	346 c. ft.	488	346 c. ft.	488	
......	11. Bamboos ...	......	......	......	.....	...	...	
1,043 & 7 rafts.	12. Total ...	2,014 & 303 c. ft.	575 & 43 c. ft.	2,589 & 346 c. ft.	1,61,741	2,589 & 346 c. ft.	1,61,741	
1,197 & 7 rafts	13. Total of same month last year	3,136 & 79 c. ft.	1,920 & 433 c. ft.	5,056 & 512 c. ft.	2,59,834	5,056 & 512 c. ft.	2,59,834	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	484	559	1,043
15. Total number of boats plying passenger No.	61	61	122
16. Total registered tonnage, cargo Tons	4,131	3,090	7,221
17. Total registered tonnage, passenger Tons	757	781	1,538
18. Ton-mileage ...	1,22,669	96,866	2,19,535
19. Estimated value of cargo Rs.	89,373	71,880	1,61,253
20. Number of passengers No.	1,555	1,696	3,251
21. Rafts, bamboos C. ft.	......	.. ...	......
22. Do., bullahs "	303	43	346
23. Estimated value of rafts Rs.	454	34	488
24. Tollage on boats "	2,157-4-6	1,697-7-6	3,854-12-0
25. Compounded tollage on boats Rs.	17-12-0	......	17-12-0
26. Tollage on rafts "	3-12-0	0-4-0	4-0-0
27. Total tollage on boats per ton-mile "	......	... ..	0-0-3·3
28. Total tollage on rafts per 100 cubic feet "	......	......	1-2-5

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	3,876	8	0
Total tollage of same month last year ...	6,633	1	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	3,889	12	6
2. Tollage per month ...	3,876	8	0
3. Total ...	7,766	4	6
4. Amount paid into Treasury during the month ...	3,955	10	9
5. Balance due at the end of the month ...	3,810	9	9

Abstract for the month of December 1888 *as compared with the corresponding month of the previous year.*

	1888-89.		1887-88.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	3,876 8 0	45,019 12 0	6,633 1 3	35,211 9 9

CALCUTTA,
The 12th February 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of December 1888.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
421	1. Grain ...	540	3,535	4,075	2,51,847	4,075	2,51,847	* Only 3 maunds passed upwards on Bhagiruthy at Jungipur
......	2. Cotton ...	.....		.....	.....	......	.....	
87	3. Oilseeds ...	17	1,193	1,210	1 44,899	1,210	1,44 899	
392	4. Salt ...	3,591	...	3,591	3,06,382	3,591	3,06,382	
1	5. Piece-goods* ...	.....	.....	.....	100	......	100	
21	6. Metal .	96	17	113	33 310	113	33,310	
41	7. Building materials	305	40	345	5,365	345	5,365	
1,064	8. Miscellaneous ...	2,086	8,188	10,274	22,60 487	10 274	22,60,487	
86	9. Fuel ...	813	165	978	13,072	978	13,072	
35 rafts	10. Timber ...	240 c. ft.	8,993 c. ft.	9,233 c. ft.	27,205	9,233 c. ft.	27,205	
8 „	11. Bamboos ...	192 „	148 „	340 „	54	340 „	54	
2,113 & 43 rafts.	12. Total ...	7,448 & 432 c. ft.	13,138 & 9,141 c. ft.	20,586 & 9,573 c. ft	30,42,721	20 586 & 9,573 c. ft	30,42,721	
2,435 & 105 rafts	13. Total of same month last year	5,354 & 65 c. ft.	16,247 & 51,011 c. ft.	21 601 & 51,076 c. ft.	23,74,190	21,601 & 51,076 c. ft.	23,74,190	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	937	1,176	2,113
14A. Ditto empty boats, steamers &c. No.	569	165	734
15. Total number of boats plying passenger No.	546	593	1,139
15A. Ditto empty boats „	70	16	86
16. Total registered tonnage, cargo Tons	19,512	27,116	46,628
17. Total registered tonnage, passenger Tons	311*	243	554
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	9,12,547	21,02,915	30,15,462
20. Number of passengers No.	709	1,034	1,743
21. Rafts, bamboos C. ft.	192	148	340
22. Do., bullahs „	240	8,993	9,233
23. Estimated value of rafts Rs.	402	26,857	27,259
24. Tollage on boats „	4,299-4-0	7,029-0-0	11,328-4-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	3-0-0	150-3 0	153-3-0
27.* Total tollage on boats per ton-mile ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	1-9-7

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	11,481	7	0
Total tollage of same month last year ...	13,270	9	1

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	567	5	2
2. Tollage per month ...	11,481	7	0
3. Total ...	12,048	12	2
4. Amount paid into Treasury during the month ...	11,728	13	2
5. Balance due at the end of the month ...	319	15	0

* Boats in these rivers do not pay per mile.

Abstract for the month of December 1888 as compared with the corresponding month of the previous year.

	1888-89. During the month.	1888-89. To end of the month.	1887-88. During the month.	1887-88. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	11,481 7 0	1,65,633 12 2	13,270 9 1	1,71,975 8 7

CALCUTTA,
The 12th February 1889.

G. A. G. SHAWE,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1888-89.

Areas leased for Irrigation up to the end of December 1888.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Details of areas leased: Five years, all crops.	Five years, kharif.	Annual leases: Kharif.	Rabi.	Sugar-cane.	Bhadoi.	Hot weather.	Total.	Grand Total.	Rainfall, 1888-89: During month	Up to end of month	Rainfall, 1887-88: During month	Up to end of month	Remarks.
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres	Acres.	Acres	Inch.	Inch.	Inch.	Inch.	
Orissa	Cuttack	Taldunda, 1st Reach.	1,342	....	.....	9,532	6,875	.. ..	9,332	...	232	14	.	......	246	10,078	......	69·48	.....	51·51	
		Taldunda, 2nd Reach.	566	43																	
		Machgong ..	776	......	... ..	27,021	19,763	.. ..	27,021	.	1		. ...	...	1	27,022	..	48·52	...	47·35	
		Kendrapara ..	1,067	126·41	84·11	47,815	37,083	......	48,490	20	2,338	40	... .	... .	2,398	50,888	.	49·84	.. ..	24·25	
		Gobri ..	372·82	42·20	19·42	1,717	669	.. ...	1,526	.	22	...	. ..	.	22	1,548	..	37·02	.	52·20	
		Gobri extension	648·00	23·12	15·38	2,345	...	. .	1,499	. .	..	..	... ..	.	.	1,499	......	46·55		47·37	
		Pattamoondi	885	3·75	13·90	9,203	8,082	.. .	8,082	..	8		.	.	8	8,090	.	.. ..		8·04	
		High Level, Range I.	608	110·07	0·59	18,448	14,629	.	16,493	.. .	143	2	. ..	...	145	16,638	.....	38·45	.....	34·90	
		High Level, Range II.	727·16	......	......	2,444	1,513	......	1,814	12	29	. .	. ..	....	41	1,855	...	.	... .	.. .	
	Balasore	High Level, Range III.	727·16	.. ..	... ..	20,895	9,704	......	19,655	92	... ..	115	..	...	207	19,862	. ..	51·12	.	49·72	
		Total ..	.	.	...	1,30,723	98,318	. ...	1,35,012	124	2,773	171		..	3,068	1,38,080			...		
	Total of the corresponding period of last year.		. ...	..	. . .	..	.....	.	99,833	45	555	171	.		771	1,00,604			.	.	
South-Western.	Midnapore	Midnapore .	1,411	44	.. ..	49,769	57,909	. .	50,963	....		.	...	.		50,963		61·58	0·02	52·35	Whole month discharging.
	Howrah	Panchkoorah	532	62	... ..	4,619	3,578	... ..	5,007	44	1,164	. .	. ..	. ..	1,208	6,215		55·42	. ..	53·27	Twenty-six days discharging.
		Tidal Reaches, Ranges I and II.	......	......	... .	389	207	... ..	502	...	...		.	...		502	.	.. .	......	..	
		Total ...	.. ...		.	54,777	61,694	.	57,072	44	1,164				1,208	58,280		...			
	Total of the corresponding period of last year		.. ..	......	.. ..	. . ..	......	. . ..	62,834	... .	1,162		...	..	1,162	63,996	.. ...	..	......	. ...	
Sone	Shahabad	Western Main	4,342	1,551	83	26,010	29,103	14,683	.. .	2,161	7,409	108	32	201	9,911	24,594		39·73	......	33·6	* Less area under Arrah canal kharif leases due to transfer to five-year leases.
		Buxar ..	1,236	362	223	83,549	79,773	43,625	.. . .	17,641	15,930	1,340	171	1,971	37,053	80,678	...	37·07	..	38·70	
		Arrah ...	2,000	826	682	1,56,124	1,37,822	1,00,037	.. ..	28,289*	15,772	1,492	27	6,882	52,462	1,52,499					
	Patna and Gya.	Eastern Main ...	1,468	545	208	1,693	1,496	806	...	479	72	10		.. .	561	1,367	.....	41·83	..	45·54	
		Patna ...				62,355	58,709	35,400	... .	18,713	4,778	207	101	. .	23,799	59,199					
		Total ...	... ..	....	.. ..	3,29,711	3,06,963	1,94,611	.	67,283	43,961	3,157	331	9,054	1,23,786	3,18,397		..	...	.	
	Total of the corresponding period of last year.		......	.. ...	......	.. ...	... ..	2,02,900	... .	43,855	13,726	3,891	206	9,313	70,991	2,73,891	..	. ..	.	.. ..	
		Grand Total .	...	. .	.. ..	5,24,211	4,66,915	1,94,611	1,92,084	67,451	47,898	3,328	331	9,054	1,28,062	5,14,757		..	..	.	
	Grand Total of the corresponding period of last year		...	.. ..	......	......	... ..	2,02,900	1,62,667	43,900	15,443	4,062	206	9,313	2,924	4,38,491	.....	. ...	... ..	.	

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

The 12th February 1889.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of December 1888.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks
857	1. Grain ...	11,386	11	11,397	11,83,537	11,397	11,83,537	* For detail see next page.
......	2. Cotton ...	......	......	......	... ..	. ...	......	
14	3. Oilseeds ...	298	......	298	33,125	298	33,125	
394	4. Salt ...	250	6,643	6,893	6,75,535	6,893	6,75,535	
......	5. Piece-goods ..	... ..	......	......				
12	6. Metal ...	7	80	87	12,350	87	12 350	
228	7. Building materials	5,312	73	5,385	84,792	5,385	84,792	
3,605	8. Miscellaneous* ...	31,401	1,719	33,120	41,19,375	33,120	41,19,375	
766	9. Fuel ...	12,379	4,450	16,829	1,32,710	16,829	1,32,710	
1 raft.	10. Timber ...	......	40 c ft.	40 c. ft	100	40 c ft.	100	
... ..	11. Bamboos ...	......		......	...	......	.	
5,876 & 1 raft.	12. Total ...	61,033	12,976 & 40 c. ft.	74,009 & 40 c. ft.	62,41,524	71,009 & 40 c ft	62,41,524	
4,840 & 1 raft.	13. Total of same month last year	61,910	9,283 & 40 c ft.	71,193 & 40 c. ft	55,09,643	71,193 & 40 c ft	55,09,643	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	5,135	741	5,876
14a. Ditto empty „	2,169	1,436	3,605
15. Total number of boats plying passenger No.	375	3	378
16. Total registered tonnage, cargo Tons	1,54,735	40,365	1,95,100
17. Total registered tonnage, passenger Tons	905	14	919
18. Ton-mileage ...	14,07,885	4,03,650	18,11,535
19. Estimated value of cargo Rs.	53,15,679	9,25,745	62,41,424
20. Number of passengers No.	1,198	6	1,204
21. Rafts, bamboos C. ft.	......	. .	. .
22. Do., bullahs „	......	40	40
23. Estimated value of rafts Rs.	...	100	100
24. Tollage on boats „	35,382-7-6	9,893-2-6	45,275-10-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	0-12-0	0-12-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-4·79
28. Ditto on rafts per 100 cubic feet Rs.	......	... ..	1-14-0

	Rs	A.	P.
Total tollage of month—24+25+26 ...	45,276	6	0
Total tollage of same month last year .	43,995	6	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,808	4	9
2. Tollage per month ...	45,276	6	0
3 Total ...	47,084	10	9
4. Amount paid into Treasury during the month ...	45,888	1	6
5. Balance due at the end of the month	1,196	9	3

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,257	(a) Jute ...	24,835	10	24,845	31 30,492	24,845	31,30,492	
128	(b) Jaggery ...	715	....	715	70,087	715	70,087	
8	(c) Sugar ...	60	......	60	15,075	60	15,075	
5	(d) Tobacco ...	8	29	37	5,125	37	5,125	
1,228	(e) Fish ...	222	1	223	62,503	223	62,503	
14	(f) Hides ...	24	......	24	5,434	24	5,434	
63	(g) Poultry ...	14	......	14	11,917	14	11,917	
90	(h) Hay and straw ...	536	......	536	13,139	536	13,139	
112	(i) Oils ...	18	1,380	1,398	1,95,675	1,398	1,95,675	
43	(k) Earthenware ...	82	2	84	1,179	84	1,179	
657	(m) Other miscellaneous ...	4,887	297	5,184	6,08,749	5,184	6,08,749	
3,605	Total Miscellaneous...	31,401	1,719	33,120	41,19,375	33,120	41,19,375	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of December 1888.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value Rupees.	Remarks.
3,796	1. Grain ...	8,713	......	8,713	7,11,992	8,713	7,11,992	* For detail see next page.
3	2. Cotton ...	14	...	14	8,000	14	8,000	
14	3. Oilseeds ...	221	...	221	19,296	221	19,296	
62	4. Salt ...	343	400	743	72,800	743	72,800	
......	5. Piece-goods ...	......	......	......	......	......	......	
......	6. Metal ...	...	......	......	......	......	......	
850	7. Building materials	3,413	11	3,424	7,266	3,424	7,266	
1,326	8. Miscellaneous* ..	5,505	83	5,588	6,18,481	5,588	6,18,481	
237	9. Fuel ..	1,087	69	1,156	9,378	1,156	9,378	
3 rafts.	10. Timber ..	2,150 c. ft.	......	2,150 c. ft.	5,375	2,150 c. ft.	5,375	
......	11. Bamboos ...	......	......	......	......	......	......	
5,788 & 3 rafts.	12. Total ...	19,296 & 2,150 c. ft.	563	19,859 & 2,150 c. ft.	14,52,588	19,859 & 2,150 c. ft.	14,52,588	
7,742 & 5 rafts.	13. Total of same month last year ...	25,542 & 1,157 c. ft.	386	25,928 & 1,157 c. ft.	18,77,923	25,928 & 1,157 c. ft.	18,77,923	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	5,707	81	5,788
14a. Ditto empty ... "	2,813	359	3,172
15. Total number of boats plying passenger ... No.	344	13	357
16. Total registered tonnage, cargo ... Tons	73,595	3,840	77,435
17. Total registered tonnage, passenger ... Tons	808	44	852
18. Ton-mileage ...	6,73,434	61,440	7,34,874
19. Estimated value of cargo Rs.	13,99,251	47,962	14,47,213
20. Number of passengers No.	2,096	47	2,143
21. Rafts, bamboos C. ft.	......	...	......
22. Do., bullahs ... "	2,150	.....	2,150
23. Estimated value of rafts Rs.	5,375	......	5,375
24. Tollage on boats "	10,509-5-0	952-5-6	11,461-10-6
25. Compounded tollage on boats ... Rs.	......	......	......
26. Tollage on rafts "	15-15-0	......	15-15-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·99
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-11-10

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	11,477	9	6
Total tollage of same month last year ...	13,980	15	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	303	14	0
2. Tollage per month ...	11,477	9	6
3. Total ...	11,781	7	6
4. Amount paid into Treasury during the month ...	11,279	3	9
5. Balance due at the end of the month ...	502	3	9

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
31	(a) Jute ...	341	......	341	42,885	341	42,885	
134	(b) Jaggery ...	696	......	696	58,180	696	58,180	
......	(c) Sugar ...	......	......	......	......	......	......	
13	(d) Tobacco ...	87	9	96	13,435	96	13,435	
339	(e) Fish ...	58	4	62	17,207	62	17,207	
1	(f) Hides ...	6	......	6	1,200	6	1,200	
1	(g) Poultry ...	1	......	1	100	1	100	
298	(h) Hay and straw...	720	......	720	17,640	720	17,640	
55	(j) Oils ...	567	11	578	80,950	578	80,950	
145	(k) Earthenware ...	168	24	192	2,684	192	2,684	
309	(m) Other miscellaneous ...	2,861	35	2,896	3,84,200	2,896	3,84,200	
1,326	Total Miscellaneous...	5,505	83	5,588	6,18,481	5,588	6,18,481	

ABSTRACT FOR THE MONTH OF DECEMBER 1888, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	45,276	6	0	2,80,654	3	6	43,995	6	6	2,59,240	8	9
Tolly's Nullah	11,477	9	6	92,840	3	6	13,980	15	9	90,597	11	0
Total ...	56,753	15	6	3,73,494	7	0	57,976	6	3	3,49,838	3	9

CALCUTTA,
The 12*th February* 1889.

G. A. G. SHAWE,
Under-Secretary to the Government of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 9*th February* 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 9th February 1889.			Week ending Saturday, the 11th February 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,576	4,07,000	7,006	1,927	4,35,723	7,755
Jute	110	82,150	1,480	137	1,01,981	1,712
Firewood	97	44,300	674	109	68,337	1,000
Other articles	1,113	2,24,430	3,297	995	2,73,230	4,357
Total ...	2,896	7,57,880	12,457	3,168	8,79,271	14,824

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 5 weeks 2 days ended 31st December 1888, as compared with the same period of 1887.

Staples.		1888. Weight.	1888. Freight.	1887. Weight.	1887. Freight.	Increase. Weight.	Increase. Freight.	Decrease. Weight.	Decrease. Freight.
		Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living	Horses, ponies, and mules ...	No. 859	18,363	No. 216	5,567	No. 641	12,796	No.	
	Cattle ...	" 338	3,050	" 12	168	" 326	2,912	" ...	
	Sheep and goats ...	" 3,874	2,806	" 7,490	6,119	......	......	" 3,616	3,313
	Other kinds ...	" ...	......	" ...	...	......	......	" ...	.....
Borax ...		840	867	2,838	3,003	...	...	1,998	1,696
Canes and rattans ...		..	......	...	...	......	...	...	
Caoutchouc (Indian-rubber) ...		15	19	16	16	......	3	1	
Chinese and Japanese ware ...		95	187	79	165	16	22	......	......
Coal and coke, up ...		9,91,964	3,36,204	7,07,304	2,23,284	2,84,660	1,12,920	...	..
Ditto, down ...		35,06,561	4,82,879	28,79,521	3,98,719	6,27,040	84,160	...	...
Cotton, raw ...		308,833	2,28,465	2,88,092	2,01,628	20,741	27,837	...	......
Cotton, manufactured.	Twist and yarn (European) ...	9,951	11,657	10,464	14,545			513	888
	Ditto (Indian) ...	20,393	13,317	15,301	9,756	5,094	3,561	......	....
	Piece-goods (European) ...	1,86,918	2,09,316	1,29,496	1,42,663	57,422	66,653	......	.
	Ditto (Indian) ...	32,741	23,463	32,206	23,242	535	221	...	..
Drugs and Medicines.	Asafoetida ...	1,598	886	718	467	880	419	..	..
	Other sorts, not intoxicating	2,410	2,272	2,052	1,964	358	308	..	......
	Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	959	1,111	1,095	1,239	......	...	136	128
Dyeing Materials.	Indigo ...	1,10,308	1,36,571	80,511	96,037	29,857	40,534	...	...
	Madder or manjit ...	26	4	24	6	2	...	.....	2
	Safflower ...	88	61	129	82	...	...	41	21
	Turmeric ...	9,459	5,750	10,180	8,955	.	..	721	3,205
	Other kinds ...	9,005	7,305	10,255	9,201	......		1,250	1,896
Earthenware and porcelain ...		759	1,148	763	1,161			4	13
Fibrous products.	Jute, raw ...	1,51,557	31,046	57,758	40,724	93,799	20,322	..	...
	Do., manufactured (gunny bags and cloths).	91,331	46,400	1,06,403	51,679	...	...	15,072	5,279
	Other fibres, raw ...	26,029	6,472	19,199	8,064	6,830	....	...	1,692
	Ditto, manufactured ...	2,824	1,088	3,237	873	.	215	413	...
Fruits & Nuts	Coconuts ...	12,165	6,839	13,816	8,401	.. ..	...	1,651	1,562
	All other kinds ...	68,801	56,295	64,271	40,097	4,530	16,198		...
Grain & Pulses	Wheat ...	2,80,830	65,197	3,65,420	82,677	... ..	..	84,590	17,480
	Gram and pulses ...	2,22,257	59,594	4,94,317	1,45,484	..	.	2,72,060	85,890
	Rice, husked ...	9,29,916	2,20,746	10,35,656	2,64,316	.	..	1,05,690	43,570
	Do., unhusked ...	45,759	3,125	7,589	915	38,170	2,490	.	
	Other rain and spring crops ...	1,43,873	22,762	8,47,003	1,65,782	.	..	7,03,130	1,43,020
Government stores ...		27,917	46,365	19,895	28,915	8,022	17,450	......	..
Gums and resins ...		5,644	2,940	6,010	3,110		...	366	170
Hides & Skins ...	Hides of cattle ...	93,518	56,737	89,499	61,950	4,019	...	..	5,213
	Skins of sheep, goats, and small animals.	16,350	8,348	16,218	9,349	132	......	......	1,001
Horns ...		1,996	1,367	1,894	1,251	102	116	..	...
Lac ...	Lac, dye ...	1,084	509	1,083	508	1	1	...	
	Do., shell ...	21,870	16,084	28,230	22,316	.....	......	6,360	6,232
	Do., stick and other kinds ...	40,523	13,999	39,154	12,380	1,369	1,619	...	..
Leather ...	Leather, unmanufactured ...	2,543	5,185	2,265	4,548	278	637	..	.
	Ditto, manufactured ...	3,793	6,585	3,490	5,690	303	895	...	
Liquors ...		21,169	17,105	21,948	17,772	......	...	779	667
Mats ...		374	218	447	227	. .		73	11
Minerals ...		1,32,469	23,698	1,46,875	21,910	...	1,788	14,506	...
Metals and Manufactures of	Brass and copper ...	20,296	11,879	23,185	14,303		..	2,889	2,424
	Iron ...	1,55,562	88,661	1,31,093	78,150	25,569	10,511	...	...
	Other metals ...	6,549	4,595	6,915	6,524	.	.	386	1,929
Oils ...		89,740	47,721	57,006	32,576	32,734	15,145	...	...
Opium ...		68,207	70,765	82,443	84,123	..	...	14,236	13,358
Paints and colours ...		4,790	2,319	3,895	1,983	895	336	...	..
Provisions ...	Ghee ...	38,311	25,643	31,918	28,511	6,333	......		2,868
	Other kinds ...	9,897	10,392	10,131	9,418	...	974	234	......
Railway materials, Construction Account ...		65,694	4,735	1,55,006	3,539		1,196	89,412	
Ditto ditto, Foreign ...		2,06,670	73,804	3,05,765	1,19,487	..	.	1,02,095	45,683
Salt ...		6,14,685	1,12,735	6,20,646	1,14,020	.	..	5,961	1,285
Saltpetre, &c.	Saltpetre ...	1,02,909	40,370	83,276	36,346	19,633	4,024	.	...
	Other saline substances ...	10,612	2,899	12,995	3,251	.	.	2,383	352
Seeds — Oil-seeds.	Linseed ...	5,35,232	1,58,143	7,42,792	2,25,723		...	2,07,560	67,580
	Mustard and rape ...	1,05,624	24,812	1,06,954	33,612		...	1,430	8,800
	Til or gingelly ...	33,132	8,410	63,602	28,349	...	...	30,470	19,939
	Other oilseeds ...	93,455	28,713	71,486	19,912	21,970	8,800	......	...
Seeds — Other seeds.	Indigo seed ...	27,689	6,955	26,639	6,975	1,050	...	..	20
	Tea seeds ...	...	......	......	...	.	.	......	..
	Other kinds ...	54,989	16,852	58,189	14,732	..	2,120	3,220	...
Silk ...	Silk, raw ...	1,254	1,238	1,369	1,186	..	52	115	......
	Do., manufactured (European)	......	......	......	......				
	Do., ditto (Indian) ...	448	337	236	165	212	172	...	......
Spices ...		12,570	8,217	12,054	7,678	516	539	....	......
Stone and marble ...		1,12,821	19,166	98,999	12,028	23,822	7,138	......	......
Sugar ...	Sugar, refined ...	1,42,683	24,348	1,42,697	26,022	......	..	14	1,674
	Do., unrefined ...	3,22,140	64,303	3,96,925	82,931	...	..	74,785	18,628
Tea ...	Tea, Indian ...	5,182	7,512	5,050	5,436	132	2,076	......	......
	Do., Foreign ...	1,286	47	1,312	50	...	.....	26	3
Tobacco ...		35,651	16,045	29,872	11,222	5,779	4,823	.....	......
Wood ...	Timber ...	53,593	12,846	54,316	13,539	......	......	723	693
	Firewood ...	29,683	1,919	42,529	2,781	......	......	12,846	862
Wool ...	Wool, raw ...	1,258	1,088	1,758	1,872	......	......	500	784
	Do., manufactured (European).	1,932	2,317	1,863	2,174	69	143	......	......
	Wool, manufactured (Indian)	3,998	4,361	3,165	3,486	833	875	......	......
	Shawls ...	2	8	.. ..	......	2	8	......	......
All other articles of merchandise ...		3,19,393	1,96,993	3,02,985	1,80,228	16,408	16,765	...	......
Bones ...		26,411	7,480	34,130	10,460	......	......	7,719	2,980
Potatoes ...		1,08,695	51,962	1,08,471	45,898	224	6,064	......	......
Total ...		1,10,24,740	33,64,630	1,12,93,840	33,92,077	15,97,681	4,25,596	17,66,261	5,13,045

General remarks on the fluctuation of principal staples carried over the East Indian Railway during the month ended 31st December 1888.

INCREASES.

Coal and coke.—There was an increase in both the upward and downward traffic; that in the former was due to despatches for Foreign Railways and for the public, and the latter was due to greater demands from the Steamer Companies, both for coaling in Calcutta and for despatch to coaling stations on the coast.

Horses.—The increase under this head is considerable, and was principally in despatches from Howrah, Bankipore, and from the North-Western Railway *viá* Ghaziabad.

Cotton.—The increase in this commodity was due to despatches from Firozabad, Hathras Junction, Aligarh, Khurja, Delhi and Morena on the Sindia State line, both to Howrah and Bombay.

Piece-goods, European.—This was due to improved demands from the Calcutta market.

Indigo.—This increase is attributable to a late season.

Jute, raw.—This was chiefly due to despatches from the Assam-Behar State Railway *viá* Sahebgunge to Howrah, Bhadreswar, Chitpore and Cossipore.

Fruits other kinds.—This increase was principally in betel-nuts from Howrah.

Government stores.—Principally in despatches of ordnance stores from Howrah to meet Government requirements at Agra and Rawalpindi.

Iron.—The increase was principally in despatches from Calcutta in response to demands from Mirzapur, Cawnpore, Agra and Delhi.

Oil.—As reported previously, the increase under this head was chiefly in kerosine oil from Howrah.

Saltpetre.—This increase was for the most part in despatches from the Bengal-North-Western and the Tirhoot State Railways owing to improved demand in the Calcutta market.

Stone.—This was due in a great measure to despatches from Mirzapur, Pahara, and Chunar under the reduced rate of 3 annas per wagon-mile.

DECREASES.

Gunny.—This decrease may be ascribed to the almost entire cessation of the export trade in seeds.

Wheat.—Due to absence of demand for export.

Gram and pulses.—
Rice (husked and unhusked).—
Other rain and spring crops.—
} The heavy decreases under these three heads were due to there not being so great a surplus as last year for export from the loop line and Dinapore district, while in the North-West the demand was less than in 1887 owing to better crops.

Opium.—Due to despatches of opium from the factories to Howrah having been temporarily stopped owing to cloudy and showery weather.

Railway material, Foreign.—This is attributable to the cessation of despatches from Bombay *viá* Jubbulpore for the Indian Midland Railway.

Salt.—Due to decreased despatches of country salt from the Bombay, Baroda and Central India Railway at Agra, Delhi and Cawnpore, and *viá* these stations.

Seeds.—This decrease was chiefly in linseed, and was due to limited demand in Calcutta for export.

Sugar (refined and unrefined).—Almost the whole falling off in earnings under this head was in sugar received from the Gya line, *viá* Bankipore, and this was due to the crops in the districts bordering the Gya line being both late and poor.

ALLEN MEARS, *Deputy, Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, JAMALPUR, *the 8th February* 1889.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	263,130	3,17,437 13 0	28,86,709 20	6,29,893 0 0	17,325 15 0	9,64,056 12 0	66,038½	103,634½	169,673½
Or per mile of railway ...	......	209 11 3	......	416 1 10	11 7 1	637 4 2	......	......	......
For previous 4 weeks of half-year	858,382	10,29,262 13 0	1,08,23,621 20	23,29,843 13 0	63,481 14 4	34,22,588 8 4	241,594¾	360,191¾	601,786½
Total for 5 weeks ...	1,121,512	13,46,700 10 0	1,37,10,331 0	29,59,736 13 0	80,807 13 4	43,87,245 4 4	307,633¼	463,826¼	771,459¾
Comparison.									
Total for corresponding week of previous year ...	275,292½	3,20,019 11 10	29,11,289 0	7,08,801 10 0	25,956 11 4	10,54,778 1 2	68,098	104,373	172,470
Per mile of railway corresponding week of previous year ..	.	211 6 6	......	468 3 11	17 2 4	696 12 9	......	......	......
Total to corresponding date of previous year	1,366,195	16,01,830 8 2	1,38,97,001 10	33,47,655 15 0	1,17,082 15 0	50,66,569 6 11	332,327	521,380	853,707

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 4th February 1888			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,54,778	697	1,513¾	9,64,057	637	1,513¾	3,84,25,335	577	1,513¾	3,67,03,525	551	......	17,21,810

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 2nd February 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	11,509	6,25[illegible] [illegible] 0	22,965 30	1,727 1 0	44 13 0	8,031 3 0	1,889	505	2,394
Or per mile of railway . ..	201	109 6 10	401 20	30 3 1	0 12 7	140 6 6	......	......	......
For previous 4 weeks of half-year	44,497	23,584 1 0	90,848 30	5,929 8 0	125 11 10	29,639 4 10	6,665	2,227	8,892
Total for 5 weeks ...	56,006	29,843 6 0	1,13,814 20	7,656 9 0	170 8 10	37,670 7 10	8,554	2,732	11,286
Comparison.									
Total for corresponding week of previous year	10,288½	9,399 10 4	37,220 10	2,314 15 0	54 4 0	11,768 13 4	1,788	606	2,394
Per mile of railway corresponding week of previous year .	285	164 5 3	691 0	40 7 7	0 15 2	205 12 0	......	... ..	......
Total to corresponding date of previous year	70,351½	38,402 12 4	1,69,525 0	10,616 5 0	271 4 3	49,290 5 7	9,414	2,784	12,198

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		R	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,769	206	57½	8,031	140	57½	4,29,437	171	57½	4,05,690	161	......	23,747

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, *on* 12 *miles open.*

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,772	476 8 0	11,551 0	258 9 0	10 6 0	745 2 0	333½	160	493½
Or per mile of railway	...	39 10 11	....	21 8 9	0 13 10	62 1 0	.....	......	.....
For previous 4 weeks of half-year	9,015	1,526 12 0	91,793 30	2,278 14 0	25 11 8	3,831 5 8	1,276	557	1,833
Total for 5 weeks ...	11,787	2,002 15 0	1,03,344 30	2,537 7 0	36 1 8	4,576 7 8	1,609½	717	2,326½
Comparison.									
Total for corresponding week of previous year	3,089½	522 8 11	21,640 0	370 15 0	17 12 0	911 3 11	332	161	493
Per mile of railway corresponding week of previous year	......	43 8 9	.. .	30 14 7	1 7 8	75 15 0	......	......	......
Total to corresponding date of previous year	16,234	2,093 10 1	1,07,404 10	2,282 8 0	50 10 6	5,026 12 7	1,665	800	2,465

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	911	76	12	745	62	12	40,547	77	12	38,688	73	....	1,859

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, *on* 74⅞ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,100	3,837 10 0	89,787 0	4,875 10 0	89 0 0	8,802 4 0	674	1,096½	1,770½
Or per mile of railway	....	51 4 11	...	65 2 11	1 8 0	117 10 10	... .	.....	. .
For previous 4 weeks of half-year	19,436	14,304 3 0	3,73,158 20	14,735 4 0	306 13 6	29,346 4 0	2,450	3,065½	5,515½
Total for 5 weeks ...	24,536	18,141 13 0	4,62,945 20	19,610 14 0	395 13 6	38,148 8 6	3,124	4,162½	7,286½
Comparison.									
Total for corresponding week of previous year	4,565	3,065 13 3	79,961 0	3,563 5 0	166 2 6	6,795 4 9	646	1,986	2,632
Per mile of railway corresponding week of previous year ...	.....	40 15 10		47 10 2	2 3 6	90 13 6	......	.. ...	. .
Total to corresponding date of previous year	22,929½	16,795 3 9	4,54,191 20	22,780 12 0	724 10 0	40,300 9 9	3,270	8,033	11,303

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1889	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs		Rs.	Rs		Rs.	Rs.	Rs.	Rs
74⅞	6,795	91	74⅞	8,802	118	74⅞	3,76,030	114	74⅞	3,02,651	92	...	73,379

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs A. P.	Rs. A. P.			
Total traffic for the week ...	19,525	5,033 11 0	10,516 20	361 6 0	8 2 0	5,403 3 0	904	64	968
Or per mile of railway	.. ..	226 3 9	.. ..	16 3 10	0 5 10	242 13 5	......	......	......
For previous 4 weeks of half-year	70,718	17,887 3 0	33,230 10	1,151 13 0	26 12 10	19,065 12 10	3,371	224	3,595
Total for 5 weeks ...	90,243	22,920 14 0	43,746 30	1,513 3 0	34 14 10	24,468 15 10	4,275	288	4,563
Comparison									
Total for corresponding week of previous year	21,386	5,487 9 9	9,041 20	346 5 0	5 0 0	5,838 14 9	890	78	968
Per mile of railway corresponding week of previous year .	.. .	246 10 2	.	15 9 0	0 3 7	262 6 9	......	......	......
Total to corresponding date of previous year	97,412	24,501 0 3	38,240 10	1,204 6 0	30 12 9	25,826 3 0	4,377	463	4,840

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs.
22½	5,830	262	22½	5,403	243	22½	2,19,055	224	22½	2,27,849	233	8,794	...

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 2nd February 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	3,021	1,034 0 0	15,758 0	954 0 0	14 0 0	2,002 0 0	509	254	763
Or per mile of railway	111	38 0 0	578 0	35 0 0	....	73 0 0	...	.....	......
For previous 3 weeks of half-year	11,430	3,890 0 0	55 290 0	2,886 0 0	52 0 0	6,828 0 0	1,891	1,621	3,512
Total for 4 weeks ...	14,451	4,924 0 0	71,048 0	3,840 0 0	66 0 0	8,830 0 0	2,400	1,875	4,275
Comparison.									
Total for corresponding week of previous year	3,624	1,400 0 0	22,505 0	1,064 0 0	16 0 0	2,480 0 0	509	510	1,019
Per mile of railway corresponding week of previous year ..	133	51 0 0	820 0	39 0 0	1 0 0	91 0 0	.....	......	......
Total to corresponding date of previous year	15,798	5,807 0 0	1,0[illegible],483 0	4,882 0 0	206 0 0	10,895 0 0	2,545	2,518	5,063

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,480	91	27½	2,002	73	27½	76,988	66	27½	83,916	72	6,928	... ..

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 2nd February 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	34,519	12,434 0 0	1,21,339 0	12,111 0 0	3,006 0 0	27,551 0 0	5,028	5,860	10,888
Or per mile of railway	126	46 0 0	444 0	44 0 0	3 0 0	93 0 0*	......	......	...
For previous 3 weeks of half-year	136,226	47,272 0 0	5,08,483 0	47,548 0 0	11,490 0 0	1,06,310 0 0	20,488	20,039	40,527
Total for 4 weeks ...	170,745	59,706 0 0	6,29,822 0	59,659 0 0	14,496 0 0	1,33,861 0 0	25,516	25,899	51,415
Comparison.									
Total for corresponding week of previous year on 259 miles open	52,615	22,725 0 0	1,84,102 0	19,298 0 0	2,844 0 0	44,867 0 0	7,313	7,869	15,182
Per mile of railway corresponding week of previous year ...	203	88 0 0	711 0	74 0 0	1 0 0	163 0 0*	......	......	....
Total to corresponding date of previous year	225,887	95,989 0 0	9,63,830 0	1,03,082 0 0	15,040 0 0	2,14,111 0 0	34,465	39,710	74,175

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

Note.—Difference in coaching receipts is due to Maghi Purnamashi mêla having taken place in the corresponding week of previous year.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
260	44,867	173	273	27,551	101	251·41	14,85,333	137	264·68	13,71,356	120	....	1,13,977

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 26th January 1889	8,628
Corresponding week last year	9,154
Decrease	526
Receipts from 1st to 26th January 1889	23,592
From 1st to 28th January 1888	25,605
Decrease	2,013
	Miles.
Miles open week ending 26th January 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 26th January 1889	169 2 10
Corresponding week last year	179 8 0
Decrease	10 5 2

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 13th February 1889.

REGISTERED No. 29.

No. 8 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 20, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupee per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

ESTABLISHMENT OF A FREE STUDENTSHIP FUND BY BABU JOY CHANDRA GUPTA.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 18th February, 1889.

RESOLUTION.

READ—

Correspondence ending with the letter from the Director of Public Instruction, No. 925, dated the 14th February, 1889, regarding the establishment of a Free Studentship Fund by Babu Joy Chandra Gupta, of Baidyabatty.

BABU JOY CHANDRA GUPTA has, on certain conditions, offered a donation of the sum of Rs. 600 in Government securities, yielding interest at 4½ per cent., for the encouragement of high English education in his native village of Baidyabatty, in the district of Hooghly, the privilege of studying for four years in the Metropolitan Institution on payment of half fees being granted to a selected student from Baidyabatty to enable him to read up to the B.A. standard of the Calcutta University. The Lieutenant-Governor is pleased to accept the donation, and tenders his thanks to the donor for his liberality.

ORDER—Ordered, that a copy of this Resolution be forwarded to the Director of Public Instruction for information and communication to the donor.

Ordered also, that a copy of this Resolution be published in the *Calcutta Gazette.*

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 16th February 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN.			
1	Burdwan Feb. 16, '89	Nil	Weather—seasonable. State and prospects of crops very fair. The *rubbi* harvest will be 12 annas at least. Prices of rice fluctuate a good deal, the last being a fall to 18 seers per rupee.
	Culna ...	0·12	
	Cutwa ...	0·60	
	Raneegunge ...	0·25	
2	Bankoora " 16, '89	0·07	Weather—seasonable. The rainfall on Tuesday, the 12th instant, has been beneficial to the standing crops, namely, wheat, barley, gram, &c., which are coming on well. Mustard and some of the pulses are being reaped. Cutting and pressing of sugarcane continue. No change in prices.
3	Birbhum " 16, '89	0·76	Weather—becoming much hotter. Prospects of *rubbi* good. Sugarcane pressing progressing.
4	Midnapur " 16, '89	1·50	Weather—seasonable. *Rubbi* crops are now being harvested; outturn fair. *Boro* better after late rain.
5	Hugli " 16, '89	0·15	Weather—seasonable. Prospects of *rubbi* crops good. Potatoes in the Serampore sub-division are very good—if not 16 annas, at any rate 14 annas. Sugarcane is being cut
	Serampur ..	0·35	
	Howrah " 18, '89	1·04	Weather—seasonable. Transplantation of *boro* paddy seedlings still in progress. Recent floods in Ulubarya jurisdiction caused some loss.
	Ulubarya ...	1·12	
	Central Districts.		
PRESIDENCY DIVN.			
6	24-Perghs. Feb. 19, '89	1·06	Weather—rainy on the 12th. The rain, which has been general throughout the district, has somewhat improved the prospects of the standing crops. Cutting of sugarcane is going on. Tillage continues.
7	Nuddea " 16, '89	0·37	Weather—seasonable. The hail-storm in the south of the district did some damage to the standing crops, which was more than compensated by rain in other parts. Tillage for *aus* in good progress. *Rubbi* much improved by rain.
	Kooshtea ...	0·53	
	Meherpur ...	0·87	
	Chooadanga ...	0·60	
8	Khoolna " 16, '89	0·10	Weather—cool. *Amun* crop harvested and stored. *Boro* transplantation is going on. *Rubbi* crops doing well.
9	Jessore " 16, '89	0·05	Weather—warm in day and cold in night. Harvesting of *rubbi* crops going on; outturn fair.
	Jhenidah ..	0·50	
	Magoora ...	0·25	
	Narail ...	0·20	
10	Moorshedabad " 16, '89	0·55	Weather—cool and fine. A shower of rain on the 11th. *Rubbi* crops promise well.
	and ...	0·55	
	Jangipur .	0·20	
RAJSHAHYE DIVN.			
11	Dinagepur , 16, '89	0·46	Weather—cloudy and temperature very changeable. Land is being ploughed for early sowings. Prospects of standing crops fair. Price of rice unaltered.
12	Rajshahye " 16, '89	0·49	Weather—much warmer. Condition of the spring crops is fair Rain has done good. Average price of rice 16 seers 12 chittacks per rupee.
	Nattore ...	0·15	
	Nowgong ...	0·42	
13	Rungpur " 16, '89	0·68	Weather—getting warm The hail in Nilphamari has caused some injury to tobacco, otherwise all the standing crops are thriving well. Cutting and crushing of sugarcane still in progress. Harvesting of mustard completed with good outturn.
	Kurigram ...	0·52	
	Nilphamari ...	1·15	
	Gaibanda .	0·29	
14	Bogra " 16, '89	0·14	Weather—seasonable. Sugarcane is being cut. Mustard has been harvested with an indifferent outturn. The other *rubbi* crops are doing very fairly.
	Sherpore ...	0·32	
	Nowkhila ..	0·20	
15	Pubna " 16, '89	0·49	Weather—seasonable. *Rubbi* crops slightly improved. Outturn of sugarcane fair. Ploughing for next rice crop going on.
	Serajgunge ...	0·17	
16	Darjeeling " 16, '89	0·33	Weather—getting much warmer Lands in the plains are being prepared for *bhadoi* crops. Crops getting on well.
17	Julpigoree " 16, '89	0·20	Weather—getting warm. Gathering of mustard nearly finished; outturn estimated at 11 annas. Other standing crops doing well. Ploughing has commenced for *aus* and jute.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca Feb. 16, '89	0·12	Weather—seasonable. Cutting of sugarcane continues. Mustard and pulses are being gathered. Prospects of crops good.
	Manickgunge ...	0·14	
19	Furreedpur " 16, '89	0·18	No change of any kind to report. Crop prospects all good.
	Goalundo ...	0·22	
20	Backergunge " 14, '89	Nil	Weather—seasonable. Prospects of *rubbi* crops good.
21	Mymensingh " 15, '89	0·21	Weather—seasonable. The late rain has done good to the standing crops. Prospects good.
	Jamalpur ...	0·11	
	Kishoregunge ...	0·21	
	Attia ...	0·24	
CHITTAGONG DIVN.			
22	Chittagong " 19, '89	Nil	Weather—seasonable. Rain much wanted for winter crops. Prices steady.
23	Noakholly " 15, '89	Nil	Weather—seasonable. Some of the *rubbi* crops are being harvested. These crops are good except in the northern part of the district. Ploughing for *aus* commenced.
24	Tipperah " 14, '89	Nil	Weather—seasonable. *Boro* plants are thriving well. More rain is wanted for the winter crops.
25	Chittagong Hill Tracts. " 12, '89	Nil	Weather—very cold during the first part of the week. Cloudy this day (12th). *Jum* cutting continues. Tobacco and *chillies* are progressing. Mustard is being gathered.
	Hill Tipperah " 14, '89	Nil	Weather—getting warm. *Jums* being cut. Mustard and sugarcane being gathered.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.				
PATNA DIVN.	26	Patna Feb. 16, '89	0·08	Weather—getting warm gradually. *Rubbi* and poppy doing well. Prospects good. In the Barh sub-division mustard, *mussoor*, peas and gram are being reaped. Prices stationary.
		Dinapur ...	0·21	
		Barh ...	0·16	
		Behar ...	0·77	
	27	Gya „ 16, '89	0·33	Weather—getting warmer. Harvesting of paddy finished. *Rubbi* harvest has begun. Poppy is being extracted.
	28	Shahabad „ 16, '89	0·34	Weather—fine, but getting hotter. *Rubbi* doing well, but some of the crops have been slightly damaged by hail in the Kaimur plateau in the Bhabuah sub-division. Prospects of poppy continue very good. Prices stationary.
		Sasseram ...	0·21	
		Bhabuah ...	0·10	
	29	Durbhunga „ 16, '89	0·14	Weather—getting hot. *Rubbi* prospects greatly improved by the late rain. *Cheena, mung* and paddy are being sown. Tobacco and poppy look well. Lands are being prepared for indigo. Prices stationary.
		Madhubani ...	0·13	
	30	Mozufferpur „ 16, '89	0·15	Weather—clear and bright. Rather warm for the season. All standing crops have benefited by the rain. Prospects of *rubbi* and poppy everywhere good. *Cheena* and *mung* are being largely sown in Sitamurhi.
		Hajipur ...	0·21	
		Sitamarhi ...	0·35	
	31	Sarun „ 16, '89	0·38	Weather—seasonable. Prospects of both *rubbi* and poppy crops continue favourable. Sugarcane planting commenced. Lands are being prepared for indigo.
		Sewan ...	0·13	
		Gopalgunge .	0·33	
	32	Chumparun „ 16, '89	0·37	Weather—fair. Prospects of *rubbi* and poppy good. *Cheena* and *mung* are being sown. A slight damage to wheat is said to have been caused by the recent rainfall in the Bettiah sub-division. Prices stationary.
		Bettiah ..	0·45	
BHAGULPORE DIVN.	33	Monghyr „ 16, '89	0·31	Weather—seasonable and fine; getting warm gradually. Prospects of *rubbi* continue favourable, though the late rain has done damage to the standing crops in places.
		Begusserai ...	0·31	
		Jamooe ...	0·26	
	34	Bhagulpur „ 16, '89	1·16	Weather—getting warmer. Heavy rain one day. Preparation of lands continues, and *cheena* is being sown. Prospects of *rubbi* fair, but no more rain is wanted now. Peas and gram are being harvested.
		Banka ...	0·25	
		Madhepurah ..	0·16	
		Soopool .	0·06	
	35	Purneah „ 16, '89	0·29	Weather—cool and seasonable. *Tori* (mustard) and tobacco are being harvested; outturn is good. Agricultural operations are in full swing, and prospects are favourable.
		Kishengunge ...	0·20	
	36	Maldah „ 16, '89	0·22	Weather—rather warmer. *Boro* paddy is being transplanted. The *rubbi* crops are maturing, and the prospects are good in places where the hail-storm of the 30th January has not destroyed or damaged the crops.
		Chanchal ...	0·54	
		Shibgunge ...	0·09	
		Gajole ...	0·62	
	37	Sonthal Perghs. „ 16, '89	0·30	Weather—clear; getting warmer daily. Prospects of standing crops continue fair. Prices stationary.
		Deoghur ...	0·19	
		Godda ...	0·25	
		Jamtara ...	0·21	
		Pakur ...	0·18	
		Rajmahal ...	0·50	
ORISSA.				
ORISSA DIVN.	38	Cuttack Feb. 15, '89	Nil	Weather—seasonable. *Sarad* and *rubbi* crops are being gathered. *Dalua* rice progressing well. Price of rice rising.
	39	Pooree „ 14, '89	Nil	Weather—seasonable. Harvesting of the winter crop (late *sarad*) is over. *Dalua* crop is doing well. Mango in blossom. Rain is wanted for *mung* crop. Common rice 19 seers 6 chittacks per rupee in the Sudder sub-division and 15 seers 1 chittack in the Khoordah sub-division.
	40	Balasore „ 15, '89	Nil	Weather—still cool in the morning. *Dalua* rice doing well. Sugarcane is being pressed. Prices remain pretty stationary.
CHOTA NAGPORE.				
South-West Frontier Agency.				
CHOTA NAGPORE DIVN.	41	Hazaribagh Feb. 15, '89	0·20	Weather—seasonable. Prospects of *rubbi* and poppy same as before. Harvesting of mustard continues with about an 8-anna crop. Prices going up in Chutra.
	42	Lohardugga „ 16, '89	Nil	Weather—days hot, mornings and evenings cool. Prospect of *rubbi* not favourable. Prices as before.
	43	Singbhoom „ 15, '89	Nil	Weather—dry and hot during the day, cool at night. *Rubbi* being harvested; outturn 6 to 8 annas. Prices stationary.
	44	Manbhoom „ 16, '89	Nil	Weather—seasonable. Outturn of sugarcane estimated at 10 annas for the district. Other spring crops vary from 8 to 12 annas. Prices rising.
		Govindpur ...	0·35	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 19th February 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	30·060	30·073	—	Calm & Northerly	178	89·7	10th Feb.	64·3	13th Feb.	84·7	68·9	75·8	—	71·8
		Gopalpore	30·031	30·081	+·050	NNW	267	85·2	10th ,,	71·8	9th ,,	83·4	73·5	78·5	+4·3	75·6
		False Point	30·064	30·086	+·045	NNW	223	83·9	9th & 10th Feb.	61·5	13th ,,	82·9	66·7	74·8	+1·9	72·0
	Cuttack	Cuttack	30·008	30·092	+·072	Calm	35	95·9	9th ,,	64·8	9th & 13th Feb.	92·3	67·3	79·8	+3·3	70·8
	Balasore	Balasore	30·036	30·097	+·061	NNW	100·7	92·4	9th ,,	58·1	13th ,,	86·3	60·7	73·5	+3·9	64·9
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·068	30·095	+·054	NE	200	84·2	10th ,,	60·9	14th ,,	82·1	64·5	73·3	+1·0	67·6
	Midnapore	Midnapore	29·950	30·107	+·068	N	72·2	89·3	9th ,,	60·2	12th & 13th Feb.	86·4	61·4	73·9	+5·8	68·2
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·072	30·095	+·050	Calm	41	84·0	9th ,,	56·3	10th ,,	81·6	59·2	70·4	+0·4	64·1
	Burdwan	Burdwan	29·937	30·003	+·050	SW	35·1	87·3	12th ,,	56·3	10th & 14th Feb.	84·5	58·3	71·4	+1·8	63·6
	Bankoora	Bankoora	29·769	30·087	—	Calm & Westerly	76	87·6	12th ,,	57·3	9th & 10th Feb.	85·3	58·7	72·0	—	63·5
	Beerbhoom, West Burdwan	Raneegunge†	29·755	30·082	+·006	North-Westerly.	47·8	86·2	9th ,,	56·7	10th ,,	83·0	59·0	71·0	+4·2	64·2
	Moorshedabad	Berhampore*	30·016	30·086	+·062	Westerly	50·3	88·0	12th ,,	53·7	9th ,,	80·8	57·3	69·1	+0·3	62·6
	Nuddea	Krishnaghur	30·053	30·122	+·086	Calm	75·7	85·7	13th ,,	53·6	10th ,,	82·2	56·2	69·2	+4·2	64·5
	Jessore, Khoolna	Jessore	30·060	30·095	+·069	Calm	38·6	85·7	12th ,,	54·5	10th ,,	83·5	57·1	70·4	+1·0	62·9
East Bengal.	Chittagong	Chittagong	29·986	30·080	+·045	Calm	56·3	85·6	15th ,,	58·1	15th ,,	82·7	61·0	71·8	+2·3	65·5
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·074	30·087	+·089	Calm	35·9	82·8	12th Feb.	56·6	14th Feb.	80·9	59·9	70·4	+4·5	66·7
	Noakholly	Noakholly	30·030	30·081	+·031	Calm	90·2?	82·3	12th ,,	54·5	15th ,,	80·7	58·5	69·6	+4·3	68·4
	Furreedpore	Furreedpore	30·052	30·094	+·072	Calm	39	84·3	12th ,,	54·0	9th, 10th & 15th Feb.	78·5	56·0	67·3	+2·1	64·4
	Dacca	Dacca	30·054	30·077	+·063	Calm	46·2	85·1	12th ,,	57·3	10th ,,	81·7	59·0	70·4	+0·9	65·3
	Commillah	Commillah	30·040	30·077	+·059	E	30·8	85·4	12th ,,	56·0	14th & 15th Feb.	82·7	58·1	70·4	+4·8	64·6
	Mymensingh	Mymensingh	30·022	30·08[illegible]	+·068	NE	56·9	82·9	12th ,,	54·9	15th ,,	70·8?	56·4	63·6?	+0·1?	61·7
North Bengal.	Bogra	Bogra	29·998	30·065	+·030	Calm	43·9	83·1	12th ,,	55·1	9th ,,	79·5	56·8	68·1	+4·4	62·9
	Pubna	Serajgunge	30·027	30·076	+·063	Westerly	30·1	84·1	12th ,,	52·0	9th ,,	80·7	54·6	67·7	+5·2	62·1
	Rajshahye	Rampore Beauleah.	30·010	30·083	+·083	South-Westerly	74·7	82·8	12th ,,	52·7	9th ,,	79·6	55·7	67·7	+4·7	63·1
	Maldah	Maldah	30·017	30·102	—	NW	72·0	82·5	15th ,,	52·5	9th ,,	81·0	55·7	68·4	—	65·8
	Dinagepore	Dinagepore	29·967	30·094	+·063	SW	61	81·6	12th ,,	55·2	13th & 14th Feb.	79·1	56·3	67·7	+6·0	61·4
	Rungpore	Rungpore	29·951	30·084	+·032	North-Westerly	89	82·0	12th ,,	54·0	14th ,,	78·3	55·6	66·9	+6·4	60·1
	Julpigoree, Cooch Behar	Julpigoree	29·792	30·097	+·057	E	40·6*	74·9	12th & 15th Feb.	49·9	9th & 13th Feb.	71·7?	51·2	61·5?	+1·0?	60·3
	Darjeeling Hill Tracts	Darjeeling	23·017	—	+·074	North-Easterly	106	51·7	11th ,,	36·2	12th ,,	47·5	37·3	42·4	+3·9	41·7
North Behar.	Purneah, North Bhagulpore	Purneah	29·950	30·085	+·049	Calm & Westerly	55·3	79·7	12th ,,	54·0	14th ,,	77·3	56·1	66·7	+2·7	59·5
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·909	30·086	+·059	WSW	80	75·2	9th Feb.	57·2	9th Feb.	73·4	59·0	66·2	+3·3	61·6
	Chumparun	Motihari*	29·884?	30·125?	?	Variable	?	76·5	10th ,,	50·9	12th & 15th Feb.	73·3	53·5	63·4	+4·3	61·1
	Sarun	Chupra*	29·868	30·092	+·081	SW	38·6	68·5	11th & 15th Feb.	53·0	9th ,,	64·7?	56·4	60·6?	—1·1?	64·5
South Behar.	Shahabad	Dehree	29·712	30·088	+·057	SW	178·4	84·3	9th ,,	56·8	12th ,,	81·3	58·0	69·6	+6·4	62·1
		Buxar	29·835	30·092	+·058	WNW	134·4	81·4	9th ,,	52·4	9th ,,	78·1	54·8	66·5	+4·5	61·4
		Arrah	29·875	30·085	+·075	WSW	32·1	80·8	9th ,,	52·4	9th ,,	78·3	54·7	66·5	+4·7	59·0
	Gya	Gya	29·704	30·105	+·052	SSW & Calm	66·0	83·4	9th ,,	55·6	10th ,,	80·8	57·1	69·0	+1·3	62·2
	Patna	Bankipore	29·895	30·090	+·049	SW	94·7	80·1	10th ,,	53·0	9th ,,	78·1	56·2	67·2	+3·0	60·7
	South Bhagulpore, Monghyr	Bhagulpore	29·903	30·073	+·065	Westerly	60·8	79·3	11th & 12th Feb.	54·0	9th & 10th Feb.	77·6	53·1	66·9	+4·5	61·9
	Sonthal Pergunnahs	Doomka	29·576	30·104	+·053	Calm	51·2	83·0	12th ,,	54·1	10th ,,	80·4	56·3	68·3	+3·6	62·9
Chota Nagpore.	Hazaribagh	Hazaribagh	28·029	30·119	+·067	Southerly	195·4	82·2	11th ,,	50·8	13th ,,	77·9	54·8	66·4	+1·3	61·6
	Lohardugga, Manbhoom	Ranchee	27·906	30·102	+·095	Calm & Westerly	133·9	85·1	12th ,,	49·9	13th ,,	81·3	53·6	67·5	+4·7	64·0
	Singbhoom	Chyebassa	29·308	30·109	+·089	Calm & S Westerly	27·4	91·6	9th ,,	55·8	14th ,,	88·0	58·0	73·0	+5·4	64·2

* Mean of six days.
† Do. of five ,,

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 15th of February 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	District Observations. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
85	1.1	Nil	Nil	0.36	Nil	0.53	-0.53	44.12	56.18	-12.06	0.0	0.7	Pooree ...	Pooree	Orissa.
78	1.1	Nil		—	—	—	—	—	—	—	—	—	Gopalpore ..		
90	4.3	Nil		—	—	—	—	—	—	—	—	—	False Point ...		
80	2.9	Nil	Nil	0.32	Nil	0.56	-0.56	51.87	52.57	-0.70	0.0	0.7	Cuttack ..	Cuttack	
85	0	Nil	0.03	0.30	0.03	0.65	-0.[illegible]2	52.98	53.99	-1.01	0.2	0.7	Balasore ...	Balasore	
95	1.0	Nil	0.15	0.36	0.18	0.95	-0.77	55.17	63.34	-8.17	0.3	0.6	Saugor Island ..	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
70	0.3	1.50	0.72	0.15	0.72	0.61	+0.11	62.92	52.17	+10.75	1.0	0.5	Midnapore ...	Midnapore	
80	0.1	1.04	0.62	0.31	0.75	0.86	-0.11	63.24	52.52	+10.72	1.0	0.8	Calcutta ...	24-Pergunnahs .. ... Howrah ... . Hooghly	
71	0	Nil	0.04	0.25	0.04	0.67	-0.63	56.22	47.37	+8.85	0.3	0.6	Burdwan ...	Burdwan	
76	1.1	0.07	0.27	0.30	0.30	0.43	-0.13	52.51	52.69	-0.18	1.0	0.6	Bankoora ...	Bankoora	
71	0	Nil	0.44	0.30	0.44	0.63	-0.19	58.52	52.23	+6.29	0.8	0.5	Raneegunge ...	Beerbhoom ... ... West Burdwan ...	
91	0	0.55	0.38	0.19	0.38	0.48	-0.10	49.16	51.03	-1.87	1.0	0.5	Berhampore ..	Moorshedabad	
83	0.4	0.36	0.47	0.28	0.47	0.67	-0.20	55.21	49.81	+5.40	0.8	0.5	Krishnaghur ...	Nuddea	
90	1.4	0.05	0.18	0.29	0.23	0.71	-0.48	44.67	53.95	-9.28	0.8	0.5	Jessore ...	Jessore ... ... Khoolna	
85	2.1	Nil	Nil	0.30	0.43	0.52	-0.09	126.20	114.33	+11.87	0.0	0.5	Chittagong ..	Chittagong	East Bengal.
			Nil	0.35	0.74	0.59	+0.15	73.14	82.25	-9.11	0.0	0.8	Demagiri ...	Chittagong Hill Tracts	
90	0.9	Nil	Nil	0.40	0.43	0.75	-0.32	72.53	77.78	-5.25	0.0	0.7	Barrisal ...	Buckergungo	
87	3.3	Nil	Nil	0.45	1.09	0.80	+0.29	106.85	107.98	-1.13	0.0	0.7	Noakholly ...	Noakholly	
88	0.7	0.18	0.15	0.27	0.28	0.65	-0.37	48.20	56.39	-8.19	0.7	0.5	Furreedpore ...	Furreedpore	
86	0.6	0.06	0.08	0.58	0.45	0.77	-0.32	56.57	60.59	-4.02	0.8	0.8	Dacca ...	Dacca	
88	1.9	Nil	Nil	0.44	0.54	0.70	-0.16	62.62	70.03	-7.41	0.0	0.8	Commillah ...	Tipperah	
92	0.6	0.25	0.15	0.38	0.15	0.65	0.50	67.39	67.98	-0.59	0.8	0.7	Mymensingh ..	Mymensingh	
87	0.0	0.14	0.17	0.28	0.17	0.47	-0.30	45.81	57.70	-11.89	0.8	0.6	Bogra ...	Bogra	North Bengal.
83	1.6	0.15	0.33	0.32	0.33	0.63	-0.30	42.38	54.01	-11.63	1.0	0.5	Serajgunge ...	Pubna	
85	0	0.48	0.32	0.21	0.32	0.56	-0.24	47.55	54.44	-6.89	1.0	0.4	Rampore Beauleah	Rajshahye	
80	0.6	0.22	0.38	0.17	0.40	0.36	+0.04	43.73	54.59	-10.86	1.0	0.6	Maldah ..	Maldah	
89	0.7	0.85	0.51	0.22	0.51	0.29	+0.22	49.08	57.71	-8.63	1.0	0.7	Dinagepore ...	Dinagepore	
93	0.6	0.60	0.66	0.19	0.67	0.26	+0.41	59.08	74.10	-15.02	1.0	0.6	Rungpore ..	Rungpore	
92	1.1	0.21	0.32	0.15	0.32	0.18	+0.14	88.18	111.41	-22.93	1.0	0.5	Julpigoree ...	Julpigoree ... .. Cooch Behar	
88	7.7	0.33	0.31	0.18	0.38	0.30	+0.08	100.98	121.68	-20.70	1.5	0.9	Darjeeling ...	Darjeeling Hill Tracts	
92	1.3	0.29	0.14	0.25	0.14	0.37	-0.23	50.79	59.04	-8.25	0.8	0.6	Purneah ...	Purneah .. .. North Bhagulpore	North Behar.
			0.37	0.21	0.37	0.32	+0.05	42.86	43.89	-1.03	1.3	0.6	Mozufferpore ...	Mozufferpore	
83	1.1	0.14	0.09	0.21	0.09	0.32	-0.23	42.14	45.04	-2.90	1.0	0.6	Durbhunga ...	Durbhunga ...	
81	3.8	0.46	0.41	0.15	0.54	0.29	+0.25	43.62	47.10	-3.48	1.0	0.5	Motihari ...	Chumparun	
81	2.1	0.29	0.26	0.22	0.26	0.29	-0.03	40.35	43.27	-2.92	1.0	0.5	Chupra ..	Sarun	
75	0	0.30											Dohree ...	Shahabad	South Behar.
78	2.4	0.12	0.26	0.13	0.26	0.30	-0.04	43.06	40.36	+2.70	1.0	0.5	Buxar ..		
84	0.9	0.[illegible]4											Arrah ..		
74	0.9	0.33	0.21	0.08	0.21	0.30	-0.09	51.02	41.95	+9.07	1.0	0.4	Gya ...	Gya	
81	3.4	0.28	0.36	0.14	0.36	0.30	+0.06	49.36	41.64	+7.72	1.3	0.5	Bankipore ...	Patna ...	
81	0.4	1.10	0.45	0.13	0.45	0.32	+0.13	51.39	43.49	+7.90	1.4	0.4	Bhagulpore ...	South Bhagulpore ... Monghyr .. .	
79	0.0	0.30	0.27	0.10	0.27	0.33	-0.06	54.73	51.13	+3.60	1.2	0.4	Doomka ...	Sonthal Pergunnahs ...	
68	1.0	0.18	0.26	0.26	0.26	0.41	-0.15	57.38	50.88	+6.50	1.0	0.6	Hazaribagh ...	Hazaribagh	Chota Nagpore.
58	0	0.01	0.03	0.22	0.03	0.49	-0.46	50.88	49.59	+1.29	0.3	0.6	Ranchi ...	Lohardugga	
			0.18	0.23	0.18	0.71	-0.53	47.41	47.66	-0.25	0.5	0.6		Manbhoom	
63	0	Nil	Nil	0.17	Nil	0.59	-0.59	40.65	52.15	-11.50	0.0	0.7	Chyebassa ...	Singbhoom ...	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ears. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of February 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 9th February 1889.	Sunday, 10th February.	Monday, 11th February.	Tuesday, 12th February.	Wednesday, 13th February.	Thursday, 14th February.	Friday, 15th February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·58	41·07	51·86
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·48	44·38	56·88
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·56	36·78	51·01
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·53	54·24	65·31
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Pipli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Cuttack ...	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·95	56·21	47·20
		Banki ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·54	43·81	51·31
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·55	52·68	56·89
		Kendrapara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·58	45·21	53·97
		Jajpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·86	61·45	54·88
		Dharmsala ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·98	?
		Salipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Balasore ...	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·64	51·05	52·91
		Bhuddruck ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·83	49·01	53·53
		Sorah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·48	49·62	51·52
		Balasore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·87	56·98	58·64
		Jellasore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·64	55·85	53·50
		Baripodah ...	...	...	0·18	...	...	...	...	1	0·18	0·18	0·47	54·36	54·25
SOUTH-WEST BENGAL.	Midnapore ..	Contai ...	...	...	...	...	...	...	...	Nil	Nil	0·08	0·84	50·78	62·10
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0·94	52·09	68·08
		Tumlook ..	...	...	...	0·60	...	...	...	1	0·60	0·60	0·86	65·40	52·06
		Midnapore ...	...	...	...	1·50	...	...	...	1	1·50	1·50	0·51	68·91	49·39
		Ghattal ...	...	...	...	0·07	...	...	...	1	0·07	0·07	0·46	57·16	55·00
		Kukrahaty ...	...	...	...	0·43	...	...	...	1	0·43	0·43	?	65·80	?
		Heria ..	...	...	...	0·35	...	...	...	1	0·35	0·35	?	52·49	?
		Bhagwanpore	...	...	...	0·81	...	...	...	1	0·81	0·81	?	[illegible]	?
		Garbeta ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·69	?
	24-Pergunnahs	Diamond Harbour ...	...	...		0·44	...	...	...	1	0·44	0·44	1·05	57·62	59·60
		Canning Town	...		...	0·14		...	...	1	0·14	0·14	?	56·26	?
		Alipore Jail ..	...	...	...	1·06	...	...	...	1	1·06	1·06	0·87	63·28	56·42
		Barrackpore...	...	...	...	0·40	...	...		1	0·40	0·55	0·96	62·21	49·17
		Dum-Dum ..	...	...	...	0·67	...	...		1	0·67	0·67	0·74	64·85	52·44
		Baraset	...	...	...	0·81	...	...		1	0·81	1·61	0·94	66·36	50·21
		Buseerhat ..	...	...	...	0·57	...	...	...	1	0·57	0·67	0·78	52·25	55·22
	Howrah ..	Howrah ..	...			1·04	...	...	...	1	1·04	1·04	0·61	66·76	52·72
		Moheshreka (*Ooloberiah.*)	...	...		1·12	...	...	...	1	1·12	1·12	0·85	60·32	52·83
	Hooghly ..	Serampore ...	...	...	...	0·35	...	...		1	0·35	0·60	0·98	67·55	51·09
		Hooghly ...	...	...		0·15	...	...		1	0·15	0·15	0·94	67·06	49·06
		Jehanabad ...	...	...	...	0·06	...	...	...	1	0·06	0·06	0·92	61·76	55·96
	Burdwan ...	Culna ...	...		...	0·12	...	...	...	1	0·12	0·12	0·65	61·12	44·82
		Burdwan ...		...				...	...	Nil	Nil	Nil	0·63	46·85	48·44
		Cutwa ...	...	...	...		...	...	...	Nil	Nil	Nil	0·74	60·68	48·49
		Raneegunge...	...	...	...	0·25	...		...	1	0·25	0·25	0·84	58·68	40·34
		Mankur ...	...	...	...	0·89	...	...	...	1	0·89	0·89	?	44·26	?
	Bankoora ...	Bankoora ...	...	...	...	0·07	...	...	...	1	0·07	0·07	0·53	49·17	51·83
		Bishenpore ...	...	...	...	0·15	...	...	...	1	0·15	0·15	0·45	54·23	51·93
		Mahara ...	...	...		0·65	...	...	...	1	0·65	0·65	0·83	51·28	52·19
		Khatra ...	...	...	...	0·20	...	...	...	1	0·20	0·50	0·40	55·32	54·58
		Indas ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·40	?
		Kotalpore ...	...	...	...	0·10	...	...	...	1	0·10	0·10	?	48·81	?
		Anda ..	...	...	...	0·50	...	...	...	1	0·50	0·50	?	38·56	?
		Gangajalghati	...	...		1·33		...	...	1	1·33	1·33	?	58·03	?
		Raipore ...	...	...	...	0·28	...	...	...	1	0·28	0·28	?	55·45	?
		Sonamukhi ..	...	...	...	0·21	...	...	...	1	0·21	0·21	?	46·54	?
	Beerbhoom ..	Bh. Soory ...	...	...	...	0·76	...	...	...	1	0·76	0·76	0·66	55·19	54·35
		Hetampore ...	...		...	0·76	...	...	...	1	0·76	0·76	0·59	49·30	54·87
		Rampore Haut	...	...	...			...	...	Nil	Nil	Nil	0·42	70·92	51·86
		Bolpore ...	...	...	...	0·73	...	...	...	1	0·73	0·73	?	63·73	?
		Murarai ...											?		?
	Nuddea ...	Ranaghat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·67	64·23	47·68
		Kishnaghur ..	...	...	...	0·37	...	...	...	1	0·37	0·37	0·71	69·79	46·47
		Chooadanga ..	...	...	...	0·60		...	...	1	0·60	0·60	0·67	53·77	51·70
		Meherpore ...	...	...	...	0·87	...	...	...	1	0·87	0·87	0·61	50·92	48·11
		Kooshtea ..	...	...	...	0·53	...	...	...	1	0·53	0·53	0·70	37·33	55·09
	Khoolna ..	Satkhira ..	...	...	...	0·30	...	...	...	1	0·13	0·33	0·65	39·43	55·70
		Bagirhat ...	...		...		...	...	...	Nil	Nil	0·10	1·04	50·76	62·55
		Khoolna ...	...	...	...	0·10	...	...	...	1	0·10	0·18	0·71	48·92	55·61
	Jessore ..	Narail ...	...	...	...	0·20	...	...	...	1	0·20	0·20	0·60	31·01	46·82
		Jessore ...	...	...	...	0·05	...	...	...	1	0·05	0·15	0·77	57·15	55·11
		Jhenidah ...	...	...	...	0·50	...	...	...	1	0·50	0·50	0·65	36·79	54·02
		Magoorah ...	...	...	...	0·25	...	...	...	1	0·25	0·25	0·57	43·80	48·91
		Bongong ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·68	49·45	52·43
	Moorshedabad	Kandi ...	...	...	...	0·55	...	...	...	1	0·55	0·55	0·46	52·22	50·55
		Berhampore...	...	...	...	0·55	...	...	...	1	0·55	0·55	0·56	42·98	51·87
		Lalbagh ...	...	...	...	0·60	...	...	...	1	0·60	0·60	0·46	48·71	51·30
		Azimgunge ...											0·50	?	51·66
		Jungipore ...	...	...	...	0·20	...	...	...	1	0·20	0·20	0·49	48·65	49·59
		Lalgola ...	...	...	...	0·10	...	...	...	1	0·10	0·10	0·40	53·19	51·60
		Jiagunge ...	...	...	...	0·30	...	...	...	1	0·30	0·30	?	48·75	?
		Akhriganj ...	...	...	...	0·32	...	...	...	1	0·32	0·32	?	48·99	?
		Patkabari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44·29	?
EAST BENGAL.	Chittagong ...	Cox's Bazar ..	...	...	...	...	...	...	...	Nil	Nil	0·27	0·35	146·71	134·14
		Chittagong ...	...		...	...	...	...	...	Nil	Nil	0·59	0·68	105·67	94·84
		Kutubdia ...	...	...	...	...	...	...	...	Nil	Nil	0·53	?	117·52	?
		Satkanya ...	...	...	...	...	...	...	...	Nil	Nil	0·04	?	91·45	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	Nil	Nil	0·57	0·86	75·42	84·56
		Ruma ...	...	...	...	...	...	...	...	Nil	Nil	0·90	0·31	70·85	78·91
	Backergunge	Patuakhally ..	...	...	...	...	...	...	...	Nil	Nil	0·67	0·86	86·27	88·40
		Perozepore ...	...	...	...	...	...	...	...	Nil	Nil	0·39	0·88	61·96	70·93
		Burrisal ...	...	...	...	...	...	...	...	Nil	Nil	0·64	0·71	66·63	68·47
		Bhola ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·54	75·23	82·10

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of February 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 9th February 1889.	Sunday, 10th February.	Monday, 11th February.	Tuesday, 12th February.	Wednesday, 13th February.	Thursday, 14th February.	Friday, 15th February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ...	...	...	...	...	...	...	...	Nil	Nil	1'00	?	50'28	?
		Bauphal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	98 58	?
	Noakholly	Noakholly ...	...	...	...	...	...	...	...	Nil	Nil	1'08	0'65	108 07	108'46
		Fenny ...	...	...	...	...	...	...	...	Nil	Nil	1 16	0 93	105 63	107 40
		Harishpore ...	...	...	...	...	...	...	...	Nil	Nil	0 32	?	130 14	?
		Ramganj ...	...	...	...	...	...	...	...	Nil	Nil	0 78	?	89 18	?
	Furreedpore	Madaripore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 47	46 11	56 31
		Furreedpore...	...	...	...	0'22	...	...	...	1	0 22	0 62	0'71	53 33	56 97
		Goalundo ..	...	...	...	0 22	...	...	...	1	0 22	0 22	0 77	45 17	53 06
	Dacca ...	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0 11	0'75	61 60	70 89
		Dacca .	...	...	...	0 12	...	...	...	1	0 12	0 99	0 65	5. 69	59 02
		Naraingunge	...	...	...	0 06	...	...	...	1	0 06	0 54	1 0.	63 43	60 66
		Manickgunge	...	...	...	0 14	...	...	...	1	0 14	0 16	0 60	47 59	50 63
		Joydebpore ..	...	...	...	0 11	...	...	...	1	0 11	0 24	?	59 49	?
	Hill Tipperah Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	0 52	0 73	54 42	62 49
		Comilla ...	...	...	...	...	...	...	...	Nil	Nil	0 13	0 6?	69 04	7. 67
		Chandpore .	...	...	...	...	...	...	...	Nil	Nil	0 60	0 .7	57 83	78 48
		Brahmunberia	...	...	...	...	...	...	...	Nil	Nil	0 91	0 8.	70 07	62 11
		Ramchandrapore.	...	...	...	0 15	...	...	...	1	0 15	0 63	?	60 81	?
		Nasirnagar ..	...	...	...	...	...	...	...	Nil	Nil	0'40	?	58 99	?
		Daudkandi .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64 18	?
		Kasba ..	...	...	...	...	...	...	...	Nil	Nil	0 05	?	56 65	?
		Laksham ..	...	...	...	...	...	...	...	Nil	Nil	1 99	?	80 01	?
	Mymensingh..	Kishoregunge	...	...	...	0 21	...	...	...	1	0'21	0 21	0 61	83 53	70 70
		Atia (*Tangail*)	...	...	...	0 24	...	...	...	1	0 24	0 24	0 68	39 12	56 08
		Mymensingh	...	...	...	0 21	...	...	...	1	0 21	0 21	0 66	70 02	74 55
		Jamalpore ..	...	...	...	0 11	...	...	...	1	0 11	0 11	0 84	63'60	66 04
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	Nil	0'46	77 62	72 22
		Subornakhally	...	...	...	0 06	...	...	...	1	0 06	0 06	?	62 14	?
		Durgapore	...	...	...	0 20	...	...	...	1	0 20	0 20	?	110 01	?
		Sherepore town	...	...	...	0 17	...	...	...	1	0 17	0 17	?	?	?
		Dewanganj .											?		?
NORTH BENGAL.	Pubna .	Pubna ...	...	...	...	0 49	...	...	...	1	0 49	0 49	0 51	40'68	54 35
		Serajgunge ...	...	...	...	0 17	...	...	...	1	0 17	0 17	0 75	44 06	53 55
	Bogra .	Sherpore ...	...	...	...	0 32	...	...	...	1	0 32	0 32	0 46	49 91	58 25
		Nowkhilla ...	...	...	...	0 20	...	...	...	1	0 20	0 20	0 40	50 87	55 12
		Bogra ...	...	...	...	0 14	...	...	...	1	0 14	0 14	0 62	45 01	61 20
		Panchbibi ...										Nil	0 58	46 44	56 15
	Rajshahye	Beauleah ...	...	...	...	0 49	...	...	...	1	0 49	0'49	0 49	33 34	55 39
		Nattore ...	...	...	...	0 15	...	...	...	1	0 15	0 15	0 63	61 78	55 55
		Naogaon ..	...	...	...	0 42	...	...	...	1	0 42	0 42	?	59 20	?
		Lalpore ...	...	...	...	0 40	...	...	...	1	0 40	0 40	?	40 0.	?
		Manda ..	...	...	...	0 20	...	...	...	1	0 20	0 20	?	32 84	?
	Maldah ...	Maldah ...	...	...	...	0 22	...	...	...	1	0 22	0'25	0 33	51 80	59 04
		Chanchal ...	...	...	...	0 54	...	...	...	1	0 54	0 54	0 38	35 61	57 08
		Gajol ..	...	...	...	0 62	...	...	...	1	0 62	0 62	?	40 20	?
		Sibganj .	...	...	...	0'09	...	...	...	1	0 09	0 09	?	48 44	?
	Dinagepore ...	Mohadebpore	...	...	...	0 11	...	...	...	1	0 11	0'11	0 37	40 83	58 71
		Churamon ...	...	...	...	1 30	...	...	...	1	1 30	1 30	0 23	50 .7	53 42
		Raigunge ...	...	...	...	0 32	...	...	...	1	0 32	0 32	0 30	52 5.	54 53
		Dinagepore .	...	...	...	0 46	...	...	...	1	0 46	0 46	0 37	59 68	61 35
		Baloorghat	...	...	...	0 34	...	...	...	1	0 34	0 34	0 18	41 96	5. 56
		Thakoorgaon	...	...	...		...	...	...	Nil	Nil	Nil	?	52'4.	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	...	0 29	...	...	...	1	0'29	0 29	0'32	48 33	61 96
		Rungpore ...	...	...	...	0'68	...	...	...	1	0'68	0 68	0 23	55 05	71 89
		Kurigram ...	...	...	...	0 52	...	...	...	1	0 52	0 52	0 19	76 42	73 73
		Bagdogra (*Nilphamari*).	...	...	...	1 15	...	...	...	1	1 15	1'17	0 30	56 45	85 50
		Ulipore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55 90	?
	Julpigoree ...	Julpigoree ...	...	...	...	0 20	...	...	...	1	0 20	0 20	0'18	106 42	117 87
		Alipore Doar	...	...	...	0 20	...	...	...	1	0 20	0 20	?	81 54	?
		Fallacotta ...	...	...	...		...	...	...	Nil	Nil	Nil	?	91 77	?
		Debiganj ...	...	...	...	0 24	...	...	...	1	0 24	0 24	?	62 86	?
		Bhogotpore (*Nagrakatta*)...	...	...	...	0 07	...	...	...	1	0'07	0 44	?	?	?
	Cooch Behar..	Dinhatta .	...	...	...	0 50	...	...	...	1	0'50	0'50	0'19	92 45	93 24
		Cooch Behar...	...	...	...	0 33	...	...	...	1	0 33	0 33	0'19	92 21	118 72
		Mekligunge...	...	...	...	0'32	...	...	...	1	0 32	0 32	0'18	76 80	108 32
		Matabhanga...	...	...	...	0'26	...	...	...	1	0'26	0 26	0 16	74 .2	117 00
	Darjeeling Hill.	Buxa ..	...	...	...	0 45	...	0 02	...	2	0 47	0 65	0 42	158 24	193 23
		Silliguri ...	...	...	...	0'13	...	...	...	1	0 13	0'16	0 05	83 79	103 76
		Darjeeling ...											0 41		109 14
		Kalimpong ..	...		0'11	0'19	...	...	...	2	0 30	0'36	0 32	71 50	83 86
NORTH BEHAR	Purneah ...	Kissengunge...	...	...	...	0 20	...	...	...	1	0 20	0 20	0'34	49 53	70 84
		Arrareah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 41	53'11	64 19
		Purneah ...	...	...	...	0'29	...	...	...	1	0 29	0'29	0 39	46 76	61 80
		Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Balarampore	...	...	0 75	...	...	...	...	1	0 75	0 75	?	?	?
		Matiari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Kaliaganj ...	...	...	...	0'19	...	...	...	1	0'19	0'19	?	59 50	?
	North Bhagulpore.	Maddapore ...	...	...	...	0'16	...	...	...	1	0 16	0 16	0 38	59 94	50 08
		Soopool ...	...	...	0 06	...	...	...	...	1	0 06	0 06	0 32	44 58	48 65
		Protabganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40 70	
	Durbhunga	Tajpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'28	44 28	43 10
		Durbhunga ...	...	...	0'14	...	...	...	...	1	0 14	0 14	0 36	58 58	46 34
		Madhubani ...	...	...	0 09	0'04	...	...	...	2	0 13	0 13	0 33	43 58	45 53
		Bahera ...	...	...	0 11	...	...	...	...	1	0 11	0 11	?	64 72	?
		Roshera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46 19	?
	Mozufferpore	Sitamarhi ...	...	...	0'21	...	...	...	...	1	0'21	0'21	0'22	35 85	43 39
		Mozufferpore	...	...	0 15	...	...	...	...	1	0 15	0 15	0 34	44 54	46 08
		Hajipore ...	...	...	0 15	0'60	...	...	...	2	0 75	0 75	0 40	48 17	42 46
		Para ...	...	...	0'40	0 10	...	...	...	2	0'50	0 50	?	58 70	?
		Mahua ...	...	...	0 16	...	...	...	...	1	0'16	0 16	?	39 14	?
		Bruhar ...	...	...	0'35	...	...	...	...	1	0 35	0 35	?	42 43	?
		Pupri ...											?		?
	Chumparun...	Motihari ...	...	...	0'37	...	...	...	...	1	0'37	0'63	0'32	39 35	45 08
		Bettiah ...	...	...	0'45	...	...	...	...	1	0'45	0 45	0 27	47 84	49 02
		Bagaha ...	...	...	0 47	...	...	...	...	1	0'47	0 47	?	55 56	?
		Burhurwa ...	...	...	0'31	...	...	...	...	1	0'31	0 31	?	41 85	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of February 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 9th February 1889.	Sunday, 10th February.	Monday, 11th February.	Tuesday, 12th February.	Wednesday, 13th February.	Thursday, 14th February.	Friday, 15th February.	TOTAL. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR —concluded.	Sarun	Gopalgunge ...	...	...	0·33	...	...	...	...	1	0·33	0·38	0·32	39·62	44·39
		Sewan ...	...	...	0·13	...	...		...	1	0·13	0·18	0·23	43·31	44·25
		Chuprah ...	...	...	...	0·33	...	...	...	1	0·33	0·33	0·31	38·11	41·12
SOUTH BEHAR	Shahabad	Buxar ..	...	...	0·35	...	...	...		1	0·35	0·35	0·25	42·42	38·83
		Dehree ...	...	...	0·30	...	...	...	...	1	0·30	0·30	0·06	44·27	39·20
		Bhuboosh ...	...	...	0·10	...	...	...	...	1	0·10	0·10	0·43	40·77	41·85
		Sasseram ...	...	...	0·21	...	...	...	...	1	0·21	0·21	0·41	42·44	41·10
		Arrah ...	...	...	0·35	...	...	...	...	1	0·35	0·35	0·32	45·43	40·63
		Mohaniah ...											?		?
	Gya ...	Aurungabad ...	...	...	0·05	...	...	...	...	1	0·05	0·05	0·20	54·02	43·10
		Gya ...	...	...	0·33	...	...	...	...	1	0·33	0·33	0·35	52·41	43·03
		Nowadah ...	...	...	0·05	...	...	...	...	1	0·05	0·05	0·37	50·02	40·48
		Jehanabad ...	...	...	0·41	...	...	...	...	1	0·41	0·41	0·26	47·60	40·98
		Arwal ...	...	...	0·77	...	...	...	...	1	0·77	0·77	?	39·28	?
		Daudnagar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·70	?
		Sherrghati ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34·25	?
		Rajauli ...											?		?
		Pakri Barawan	...	...	0·20	...	...	...	...	1	0·20	0·20	?	33·26	?
	Patna ...	Patna ...	...	...	0·22	0·06	...	...	...	1	0·28	0·28	0·30	42·02	42·30
		Dinapore ...	...	...	0·21	...	...	...	...	1	0·21	0·21	0·26	43·91	41·82
		Behar ...	...	...	0·77	...	...	...	...	1	0·77	0·77	0·34	56·43	42·33
		Barrh ...	...	...	0·16	...	...	...	...	1	0·16	0·16	0·32	58·86	40·12
		Bickram ...	...	...	0·30	...	...	...	...	1	0·30	0·30	?	39·98	?
		Hilsa ...	...	...	0·60	...	...	...	...	1	0·60	0·60	?	48·29	?
	Monghyr .	Begooserai ...	...	...	0·31	...	...	...	...	1	0·31	0·31	0·30	40·53	40·59
		Monghyr ...	...	...	0·11	0·20	...	...	...	2	0·31	0·31	0·30	56·22	40·81
		Jamui ...	...	...	0·26	...	...	...	...	1	0·26	0·26	0·34	51·55	43·45
		Gogri ...	...	...	0·54	...	...	...	...	1	0·34	0·34	?	64·38	?
		Sheikpura ...	...	...	0·30	...	...	...	...	1	0·50	0·50	?	60·13	?
	South Bhagulpore	Bhagulpore ...	...	...	0·02	1·09	...	...	...	2	1·11	1·11	0·27	56·14	42·40
		Banka ...	...	...	0·25	...	...	...	...	1	0·25	0·25	0·27	43·47	45·00
		Kolgong ..											?		?
	Sonthal Pergunnahs	Rajmehal ...	...	...	...	0·50	...	...	...	1	0·50	0·50	0·19	48·40	52·24
		Godda ...	...	...	...	0·25	...	...	...	1	0·25	0·25	0·35	51·54	45·52
		Pakour ..	...	...	...	0·18	...	...	...	1	0·18	0·18	0·30	64·53	55·58
		Nya Doomka	...	...	...	0·30	...	...	...	1	0·30	0·30	0·41	53·59	53·66
		Deognur ..	...	...	0·15	0·04	...	...	...	2	0·19	0·19	0·40	53·57	50·63
		Jamtara ..	...	...	...	0·21	...	...	...	1	0·21	0·21	0·25	56·74	48·48
		Mohagama ...	...	...	...	0·95	...	...	...	1	0·95	0·95	?	?	?
		Nanihat ...	...	...	...	0·25	...	...	...	1	0·25	0·25	?	29·31	?
CHUTIA NAGPUR.	Hazaribagh ...	Paonamba (*Giridi*).	...	...	0·58	...	...	...	...	1	0·58	0·58	0·46	57·45	47·93
		Hazaribagh ...	...	...	...	0·18	...	...	...	1	0·18	0·18	0·58	55·14	48·64
		Semtagurah .	...	...	...	0·12	...	...	...	1	0·12	0·12	0·33	55·72	46·12
		Manudi Hills											0·38		48·76
		Jhoomra Hills	...	...	0·85	...	...	...	...	1	0·85	0·85	0·29	64·20	62·78
		Barhi ...	...	...	...	0·45	...	...	...	1	0·45	0·45	?	50·08	?
		Chatra ...	...	...	...	0·15	...	...	...	1	0·15	0·15	?	54·30	?
		Karagdeha ...	...	...	0·30	0·25	...	...	...	2	0·55	0·55	?	54·38	?
		Ramghar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46·33	?
	Lohardugga ...	Lohardugga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	46·85	52·92
		Ranchi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·76	52·89	52·89
		Palamow ...	...	...	...	0·10	...	...	...	1	0·10	0·10	0·40	52·92	43·75
		Silli ...											?		?
		Balumat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·12	?
		Hosseinabad ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Garwah ...	...	...	0·20	...	...	...	...	1	0·20	0·20	?	47·13	?
	Singbhoom ..	Chyebassa .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·59	40·65	52·30
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·95	?
		Ghatsilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·04	?
		Baharagura ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·55	?
	Manbhoom ...	Purulia ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·73	57·40	40·73
		Gobindpore ...	...	...	...	0·35	...	...	...	1	0·35	0·35	0·68	37·30	45·73
		Raghunathpore.	...	...	...	0·60	...	...	...	1	0·60	0·60	?	53·93	?
		Burrabhoom.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·64	?
		Jhalda ...											?		?
		Chas ...											?		?

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 19*th February* 1889

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 15TH FEBRUARY 1889.

AT the end of the preceding week an unimportant low pressure area had formed over Bengal, but it influenced the weather only in raising the temperature and humidity, and in giving southerly winds in the southern parts of the province. On Saturday, the first day of the present week, this low pressure area had almost disappeared; winds had again become northerly in South Bengal, and only at the eastern stations the wind directions were southerly. The temperature was slightly above the normal, giving an average excess of about 2° for the whole province. Fine weather prevailed on Saturday and Sunday throughout the province, and temperature and humidity continued to increase, the average excess showing a daily increase of about one degree. A low pressure area, which had formed in Central India from 9th to the 10th, moved eastward on Sunday, and on Monday it covered Chutia Nagpur and caused unsettled weather in Bengal on Monday and Tuesday. The barometer fell over the whole province, and weather became cloudy, except in East Bengal. Moderate and fairly general rain fell in Bengal and Behar in connection with the depression, though at many places where the fall was greatest, the rain accompanied local thunderstorms. On Tuesday the depression had become more shallow, and was over East Bengal, and on the morning of the 13th it had completely disappeared and weather became fine, and remained so until the close of the week. On Monday the wind directions were irregular, though generally southerly over the greater part of the province; but on the following day, with the departure of the depression, northerly winds again began, except in East Bengal. On Tuesday, the 12th, the average excess temperature for Bengal was 4½°, but with the renewal of the northerly winds temperature fell, and on Wednesday there was everywhere a considerable reduction. The fall was rapid in South Bengal, equalling 5° at some stations. For the last three or four days of the week the weather was fine and winds light, but moderate oscillations occurred in pressure, a moderate rise taking place on Wednesday and Thursday, and a moderate fall on Friday. Temperature was fairly low, though generally rising. Thus the only important event in the week's meteorology has been the passing of the low pressure area in the early part of the week, giving high temperatures in front of and during the depression, followed by low temperature in its rear and fairly general rain in Behar and Bengal.

Pressure.—Pressure has been high during the whole week, and though considerable oscillations occurred, it never fell below the normal. For the week the average excess for all districts lies between ·05" and ·1". At the commencement of the week, while the slight depression existed over Bengal and Behar, the average pressure was almost normal, and on its filling up, pressure rose everywhere about ·05" above it This somewhat rapid rise occurred on Sunday, the second day of the week. On the approach from Central India of the depression which began to affect the weather in Behar and Bengal on Monday, the pressure everywhere gave way with moderate rapidity, and the decrease continued in all districts, except Orissa and South Bengal, during the following day. The low pressure area was rapidly transferred eastwards, and on Wednesday there was a moderate rise everywhere. The pressure was then considerably above the normal over the whole province, this excess being greatest in Orissa, where it was about a tenth of an inch. The rise continued slowly on Thursday, but gave place to a brisk fall on Friday. The pressure still remained considerably in excess of the normal.

Temperature.—Temperature has been decidedly above the normal in Orissa, Behar and North Bengal; elsewhere the excess has not been large. At some stations in South Bengal temperature has been almost normal on the average for the week. In the early part of the week the variations from the normal were very irregular, varying from zero to four or five degrees. In North Bengal the excess was in the night temperatures usually, the day temperatures being not unfrequently in defect. Changes were also very irregular during the first few days. At most stations there was a slow steady rise, while at a few there were fairly rapid rises and falls. These slow steady changes being most common kept the mean temperature high in several districts. On Wednesday the temperature fell rapidly everywhere, giving slight defect over the greater part of the province. The largest fall was nearly 7° at Dacca, and at many stations the fall amounted to 5°. After that the changes were usually small, though there was a slight general rise on Friday. The mean for the whole province was about 2° in excess at the beginning of the week, and increasing by nearly a degree daily became about 4½° in excess on Tuesday. The rapid fall on Wednesday made the mean nearly normal, but by the end of the week it was again slightly in excess.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 15th February 1889.

	Normal mean maximum temperature for the week ending 15th February.	Actual mean maximum temperature for the week ending 15th February 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 15th February.	Actual mean minimum temperature for the week ending 15th February 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 15th February.	Actual mean daily temperature for the week ending 15th February 1889.	Variation of actual mean from the normal.
Cuttack	88·5	92·3	+3·8	64·5	67·3	+2·8	76·5	79·8	+3·3
Calcutta	88·9	81·6	+0·7	59·2	59·2	0	70·0	70·4	+0·4
Dacca	81·6	81·7	+0·1	57·3	59·0	+1·7	69·5	70·4	+0·9
Burdwan	81·7	84·5	+2·8	57·4	58·3	+0·9	69·6	71·4	+1·8
Patna	77·1	78·1	+1·0	51·3	56·2	+4·9	64·2	67·2	+3·0
Gya	80·3	80·8	+0·5	55·0	57·1	+2·1	67·7	69·0	+1·3
Purneah	77·5	77·3	−0·2	50·4	56·1	+5·7	64·0	66·7	+2·7
Hazaribagh	77·0	77·9	+0·9	53·4	54·8	+1·4	63·2	66·4	+1·2
Darjeeling	41·9	47·5	+2·6	38·1	37·3	+5·2	38·5	42·4	+3·9

Rainfall.—On Monday humidity became high over the greater part of Bengal and Behar; in Behar the sky was densely clouded, and light rain fell in many parts, the largest amount being about three-fourths of an inch. On Tuesday general light rain fell, but where local storms occurred the fall was heavier. At Midnapore 1·5 inches of rain fell, and at several other places more than an inch. In Orissa scarcely any rain fell. The average for the province was about a quarter of an inch. South-West Bengal and North Bengal each received 0·4 inch, and South Behar 0·3 inch In Orissa the average was 0·01 inch. In Behar the rain fell on Monday, but elsewhere on Tuesday, and after that till the end of the week no rain fell.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 15th of February 1889:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	95·9	58·1	85·9	67·0	76·5	+3·4	0·01	0·32	—0·31	0·1	0·6	—0·5	0·01	0·57	50·55	54·06
South-West Bengal ...	89·3	53·6	83·7	59·3	71·5	+2·4	0·40	0·28	+0·12	0·8	0·5	+0·3	0·44	0·69	55·78	52·62
East Bengal	85·6	54·0	79·7	59·4	69·1	+2·7?	0·06	0·37	—0·31	0·4	0·6	—0·2	0·45	0·68	71·48	74·98
North Bengal	84·1	40·9	78·6?	55·1	66·9?	+4·6?	0·40	0·21	+0·19	1·0	0·5	+0·5	0·40	0·34	55·98	70·79
North Behar	79·7	53·0	71·8?	57·2	64·5	+1·6?	0·23	0·21	+0·02	1·0	0·5	+0·5	0·25	0·32	44·74	40·12
South Behar	84·3	52·4	79·2	56·2	67·7	+4·0	0·31	0·11	+0·20	1·2	0·4	+0·8	0·31	0·30	50·40	44·17
Chutia Nagpur	85·1*	49·9*	79·6*	54·2*	66·9*	+2·9*	0·18	0·23	—0·05	0·7	0·6	+0·1	0·18	0·50	51·15	50·06

* Chyebassa not included.

Meteorological Office, Bengal;
The 19th February 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipcre Observatory from 10th to 16th February 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb.	10th	138·4	10·3	30·012	69·3	83·1	26·6	56·5	60·7	0·421	54·2	62	W by S and variable	22	Nil	Clear, ⌓.
,,	11th	136·5	6 8	29·982	70·2	83·2	24·7	58·5	66·1	·595	63·8	81	S, calm and variable	60	0·54	Chiefly cloudy, o, g, d, p, t, <, ≡, ⌓.
,,	12th	134·5	10·2	30·004	69·2	78 5	17·7	60·8	64·0	·529	60·6	75	NNW and calm ...	70	0 50	Partially cloudy, o, p, ≡.
,,	13th	135·5	10·5	·059	69·2	78·5	19·4	59 1	63·1	·499	58·9	71	N, WNW and calm	33	Nil	Clear, ⌓.
,,	14th	135·8	10·1	·072	69·2	80·6	22·5	58·1	63·4	·512	59·6	73	WNW and calm ...	15	,,	Clear, ≡, ⌓.
,,	15th	137·8	9·7	·053	70·4	82·8	23·5	59·3	63·0	·480	57·8	67	NNW and calm ...	21	,,	Chiefly clear, ≡, ⌓.
,,	16th	138·7	10·0	·047	70·3	82 4	23·6	58·8	63·1	·484	58·0	68	NNW and calm ...	20	,,	Chiefly clear, ⌓.

	Inches.
The mean pressure of the seven days	30 033
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·949
	Hours.
The total number of hours of bright sunshine	67·6
The maximum possible number of hours of sunshine	79·3
	°
The mean temperature of the seven days	69·7
The average temperature of the corresponding period for 24 years, S. G.'s Office	72·5
The extreme variation of temperature	26·7
The maximum temperature	83·2
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	20
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	68
	Inches.
The total fall of rain from 10th to 16th February 1889	1·04
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·32
The total fall from 1st January to 16th February 1889	1·20
The average fall of the corresponding period for 24 years, S. G.'s Office ...	1·05

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, < lighting, ≡ fog, ⌓ dew.

N.B.—In the Weekly Report from 27th January to 2nd February 1889, read WNW and WSW for WNW and NSW as the prevailing wind directions of the 28th January 1889.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 18th February 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 10th to 16th February 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°		°	Inches.	°	%	Inches.
February ...	10th ...	30·090	70·4	84·9	29·0	55·9	76·6	62·5	·379	51·3	42	
" ...	11th ...	·079	72·7	84·9	24·5	60·4	70·1	68·6	·680	67·7	92	
" ...	12th ...	·090	70·9	80·4	19·1	61·3	70·6	64·9	·540	61·1	72	1·14
" ...	13th ...	·142	70·4	80·9	21·0	59·9	73·8	64·6	·488	58·3	58	
" ...	14th ...	·150	71·1	82·9	23·6	59·3	74·6	64·6	·477	57·6	56	
" ...	15th ...	·120	72·3	84·4	24·3	60·1	75·6	65·0	·474	57·4	53	
" ...	16th ...	·125	71·7	84·4	25·5	58·9	76·8	67·1	·538	61·0	59	

				Inches.
The mean 10 A.M. pressure of the seven days	...	...	...	30·114
				°
The mean temperature of the seven days	...	...	...	71·4
The extreme variation of temperature	...	...	...	29·0
The maximum temperature ...	...	...	...	84·9
				%
The mean relative humidity at 10 A.M.	...	...	...	62
				Inches.
The total fall of rain from 10th to 16th February 1889		...	...	1·14

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 18th February 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE birth and death returns of the principal Municipalities in Bengal for the week ending 2nd February 1889 present the following results: —

1. Births were registered at the rate of 21· per 1,000 of population and deaths at 22·8. The ratios of the preceding week ending 26th January were 22·1 and 24·5 per 1,000 respectively. There was thus a falling off in the registration of both births and deaths during the week ending 2nd February.

2. The highest proportions of births and deaths were returned from the following Municipalities:—

Births.

	Ratio per *mille.*
Utterpara	47·2
Bali	45·6
Monghyr	40·7
Naraingani	37·3
Rampore Beauleah	36·8
Puri	35·7
Comillah	30·8
Gya	29·4

Deaths.

	Ratio per *mille*
Suburbs of Calcutta	48·6
Darjiling	45·6
Serampore	37·3
Naraingani	33·1
Howrah	29 8

3. The following figures represent the rates of mortality from the diseases mentioned below, contrasted with similar information for the preceding week ending 26th January:—

	Ratio per *mille* during the weeks ending— 2nd Feb. 1889.	26th Jan. 1889.
Cholera	3·3	3·1
Small-pox	·3	·2
Fever	8·7	8·4
Bowel-complaints	4 0	4·4
Injury	·5	·4
Other causes	6 0	8 0

It will be observed that there was an appreciable decrease of mortality only under the head "Other causes."

4. Of the diseases above named, Cholera, Fever, Bowel-complaints, and "Other causes" proved conspicuously fatal only in the following Municipalities, and Small-pox only in the Patna town, where the death-rate from this cause stood at 1·6 per 1,000 of population:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Howrah ...	13·2	Darjiling ...	32·6	Suburbs of Calcutta	11·0	Serampore ...	13·7
Suburbs of Calcutta	10·5					Puri ...	12·6
						Midnapore ...	12·4
						Suburbs of Calcutta	10·1

5. Distributed under the heads of *Sex, Class* and *Age,* the mortality of the week stood as follows:—

According to Sex.

	Ratio per *mille.*
Males	24·1
Females	21·4
Ratio of male deaths to every 100 female deaths	127

According to Class.

	Ratio per *mille.*
Christians	13·0
Hindus	23·9
Mahomedans ...	21·0

According to Age.

	Ratio per *mille.*
Under 1 year ...	154 3
1 and under 5 years ...	29·9
5 " 10 " ...	8·3
10 " 15 " ...	9·5
15 " 20 " ...	11·5
20 " 30 " ...	18·2
30 " 40 " ...	15·0
40 " 50 " ...	23·3
50 " 60 " ...	22·4
60 years and upwards ...	58 1

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 18*th February* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 2nd February 1889.

Columns 1–6: Population and Births

1	2	3			4			5			6
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS. Number of—			BIRTHS. Ratio per 1,000 of Population per annum.			Ratio of male births to every 100 female births.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
Burdwan ...	Burdwan	18,963	16,117	35,080	1	11	12	[illegible]	[illegible]	[illegible]	9
Midnapore ..	Midnapore	16,927	16,643	33,570	4	4	8	6·2	6·2	12·4	100
Hughli ...	Hughli and Chinsurah	19,179	19,5[illegible]	38,719	8	11	19	10·7	14·8	[illegible]	72
Serampore	Serampore	13,559	12,9[illegible]	26,4[illegible]	9	2	11	17·7	[illegible]	[illegible]	[illegible]
	Utterpara ...	3,046	2,464	5,5[illegible]	2	3	5	[illegible]	[illegible]	47·2	66
Howrah ..	Howrah	53,153	37,660	90,813	25	22	47	14·3	12·5	[illegible]	113
	Bally	7,836	6,979	14,815	6	7	13	21·0	24·6	45·6	85
24-Pergunnahs	Suburbs of Calcutta	147,205	104,234	251,439	54	54	108	11·1	11·1	22·3	100
Nuddea ...	Kishnaghur	13,263	14,214	27,477	4	4	8	7·5	7·5	15·1	100
	Ranaghat	4,028	4,655	8,683	..	2	2	.	12·0	12·0	No male birth.
	Santipore	13,708	15,979	29,687	8	4	12	14·0	7·0	21·0	200
Jessore	Jessore	4,830	3,665	8,495	1	2	3	6·[illegible]	12·2	18·4	50
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	6	8	14	15·8	21·0	36·8	75
Darjiling	Darjiling*	5,029	2,947	7,976	2	2	4	13·0	13·0	26·1	100
Dacca ...	Dacca	42,782	37,379	80,161	14	7	21	9·1	4·5	13·6	200
	Narainganj	7,605	4,956	12,561	3	6	9	12·4	24·9	37·3	50
Chittagong ...	Chittagong	13,340	8,790	22,130	1	3	4	2·3	7·0	[illegible]	33
Tipperah	Comillah	8,153	5,353	13,506	5	3	8	19·2	11·5	[illegible]	166
Patna	Patna City	78,762	81,175	160,2[illegible]	13	25	38	4·2	8·1	12·3	52
Gya	Gya	38,290	37,831	76,121	24	19	43	16·4	13·0	29·4	126
Shahabad	Arrah	20,960	22,505	43,465	9	4	13	10·7	4·5	15·6	225
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	3	3	6	3·6	3·6	7·3	100
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	14	8	22	11·0	6·3	17·3	175
Sarun	Chupra	26,044	27,205	53,249	11	7	18	10·7	6·8	17·6	157
Bhagulpore... ...	Bhagulpore	29,640	27,818	57,458	8	12	20	7·2	10·9	18·1	66
Monghyr	Monghyr	28,154	29,366	57,520	23	22	45	20·8	19·9	40·7	104
Purneah	Purneah	8,463	6,553	15,016	1	3	4	3·3	10·4	13·[illegible]	33
Puri	Puri	13,247	11,537	24,784	10	7	17	21·0	14·7	35·7	142
	Total ...	702,890	619,691	1,322,581	269	265	534	10·6	10·4	21·0	101

Columns 7–12: Mortality according to—

1	2	7							8							9	10		11		12
		Disease. Deaths from—							Disease. Ratio per 1,000 of Population per annum.								Sex. Deaths.		Sex. Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	..		6	2		5	13	...		9·2	3·0	.	7·6	19·8	25·9	7	6	20·2	19·5	116
Midnapore	Midnapore			4	2	..	8	14	..	.	6·2	3·1	..	12·4	21·7	13·9	8	6	24·6	18·8	133
Hughli	Hughli and Chinsurah	2	.	11	4		2	19	2·7	.	14·8	5·3	.	2·7	25·5	21·5	10	9	27·1	24·0	111
Serampore	Serampore			7	4	1	7	19	..		13·7	7·3	2·0	13·7	37·[illegible]	33·4	9	10	34·5	40·2	90
	Utterpara	1		...			.	1	9·4				...	.	9·4	37·7	1	.	17·1		No female death.
Howrah	Howrah	23	..	12	9	1	7	52	13·2	..	6·[illegible]	5·1	·6	4·0	29·8	24·0	28	24	27·4	33·1	116
	Bally	1	.	4	2	.		7	3·5	..	14·0	7·0	...	.	24·6	24·6	3	4	19·9	29·8	75
24-Pergunnahs	Suburbs of Calcutta	51	...	78	53	4	49	235	10·5	...	16·1	11·0	·8	10·1	48·6	49·8	141	95	49·5	47·4	147
Nuddea	Kishnaghur	...	..	4	.	.	1	5		..	7·5	..	...	1·9	9·5	22·7	5	...	19·6	...	No female death.
	Ranaghat	..	...	..	...	..	...		.	..	...	...	...	.	...	6·0	..	...	..	.	... ..
	Santipore		...	6	.		1	7		..	10·5	.	...	1·8	12·3	1·7	5	2	19·0	6·5	250
Jessore	Jessore		...	1	.		..	1		..	6·1		..	...	6·1	24·5	...	1	.	14·2	No male death.
Rajshahye	Rampore Beauleah	.	...	7		.	..	7	..	..	18·4	...	..	...	18·4	23·6	3	4	14·5	23·0	75
Darjiling	Darjiling*		..	5	.	..	2	7	.	.	32·6	..	...	13·0	45·6	19·6	5	2	51·7	35·3	250
Dacca	Dacca	3	1	4	4	1	13	26	1·9	·6	2·6	2·6	·6	8·4	16·9	14·3	15	11	18·2	15·3	136
	Narainganj	1		3	1	.	3	8	4·1	..	12·4	4·1	...	12·4	33·1	37·3	3	5	20·5	52·5	60
Chittagong	Chittagong	..	...	1	..		1	2	.	..	2·3	.	...	2·3	4·7	18·5	2	..	7·8	...	No female death.
Tipperah	Comillah		.	4	.		2	6	.	..	15·4	.	...	7·7	23·1	38·5	2	4	12·8	38·9	50
Patna	Patna City		5	11	7	1	8	32	.	1·6	3·6	2·3	·3	2·6	10·4	12·7	12	20	7·9	12·8	60
Gya	Gya	2	.	17	1	1	9	30	1·4	...	11·6	·7	·7	6·1	20·5	20·5	16	14	21·7	19·2	114
Shahabad	Arrah			3	..	..	1	4	.	...	3·6	...	...	1·2	4·8	8·4	2	2	5·0	4·6	100
Mozufferpore	Mozufferpore	...	.	2	1		5	8	..		2·4	1·2	..	6·1	9·7	6·1	3	5	6·8	13·2	60
Durbhanga	Durbhanga			12	1		3	16	..		9·4	·8		2·4	12·6	24·4	8	8	12·3	12·9	100
Sarun	Chupra		1	2		1	8	12	.	1·9	1·9	..	1·0	7·8	11·7	9·8	5	7	10·0	13·4	71
Bhagulpore	Bhagulpore		.	5	1	...	10	16	.	.	4·5	·9	...	9·1	14·5	16·3	10	6	17·5	11·2	166
Monghyr	Monghyr	.	.	4	6	1	3	14	..	.	3·6	5·4	·9	2·7	12·7	18·1	11	3	20·3	5·3	366
Purneah	Purneah		..	5	2		.	7		..	17·5	6·9	..	...	24·2	38·1	4	3	21·6	23·8	133
Puri	Puri		.	3	3	1	6	13		.	6·3	6·3	2·1	12·6	27·3	44·1	9	4	35·3	18·0	225
	Total	84	7	221	103	12	154	581	3·3	·3	8·7	4·0	·5	6·0	22·8	24·5	326	255	24·1	21·4	127

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS	NAMES OF MUNICIPALITIES	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan		8	5	...			17·6	25·3			1		1	1	...	1	4	3	...	2	75·8	...	22·3	20·7	......	6·6	30·2	35·3	......	70·2
Midnapore	Midnapore		9	5		...		18·0	36·0			2	...	1	...	1	1	2	4	...	3	149·0	......	13·9	......	16·5	7·1	18·8	55·8	......	85·2
Hughli	Hughli and Chinsurah ...		16	3		...		23·3	22·9			2	2	2	2	1	1	3	1	4	1	110·3	39·0	20·9	34·4	17·5	6·8	22·3	10·1	63·7	20·7
Serampore	Serampore	...	17	2		...		35·0	110·1	...	•	4	3	...	2	...	2	3	3	1	1	203·0	86·4		45·8	...	19·3	31·4	46·2	27·2	37·4
	Utterpara		1	...	...	...		9·8		...		...			...	...	1	...	...	...		...	...	...		...	45·2	......	...	......	......
Howrah	Howrah	...	38	14				29·0	37·7		...	5	3	2	2	3	9	8	8	2	10	126·0	28·2	16·5	15·8	21·3	20·6	21·6	35·4	18·9	138·6
	Bali	...	7		...	...	...	27·1		...	...	3	3					...	...	...	1	439·9	136·2	...	...	......	...	...	...	...	71·0
24-Pergunnahs ...	Suburbs of Calcutta ...	2	161	72		...	25·7	53·5	18·8	...		30	27	10	8	10	44	26	33	10	28	327·4	86·9	26·3	23·2	28·9	39·4	26·3	50·5	58·2	102·3
Nuddea	Kishnaghur		4	1	...	...	...	11·2	6·5	...		2		...	...	...	1	1	...	...	1	209·7	...	...	...	......	10·8	12·1	......	...	30·1
	Ranaghat	...			...	...		...			...		...			...	...	...	...	...	...			...	...	......	...	...	......	...	...
	Santipore	...	6	1	...	...	...	15·1	5·8	...	...	2	2	...	...	...		...	2		1	123·1	35·9	...	...	...	......	......	29·6	......	26·5
Jessore	Jessore	...		1	...	...		...	13·6	...	...	...		...	...	...	1	...	...	...	...	...	...	...	...	......	25·8	......	...	......	...
Rajshahye	Rampore Beauleah ...	...	4	3	...	...		21·0	12·4	...	...	1	1	...	1	1	1	2		...	...	128·1	36·7	...	28·9	31·3	12·5	28·9	...	......	...
Darjiling	Darjiling	...	7					71·3		...		1	1	...	...		2		...	1	2	429·8	85·9	...	...	...	52·0	......	...	213·1	615·4
Dacca	Dacca		19	7	...	...		24·5	13·3	...		1		3		2	8	2	1	3	3	169·6	...	15·7	...	14·2	27·2	8·9	6·2	32·9	28·0
	Narainganj		3	5		...		22·7	42·2			2	1	...	...	...	1	1	...	1	2	372·8	45·6	......	......	...	19·5	23·4	...	66·4	159·5
Chittagong	Chittagong	...	...	2	...	...			6·8		...		1	...	...		...		1	...	...	...	26·4	...	...	...	......	...	23·0	......	......
Tipperah	Comillah	...	2	4	...	...	...	17·5	25·1		...	2	...	...			...	1	...	1	2	350·2	...	...	...	...	......	26·1	......	64·9	153·4
Patna	Patna City	...	28	4		...	...	12·2	5·1		...	7	4	...	2		6	3	2	2	6	81·5	14·3	...	7·2	...	10·8	6·7	5·5	7·4	22·6
Gya	Gya	...	21	6	...	...		20·8	19·4	...	...	4	5		1		4	3	3	2	8	116·2	40·9	...	7·7	...	14·1	12·3	16·0	15·8	80·8
Shahabad	Arrah	...	4		...	...	...	6·7	...	...	...	2	...	...		...		...			2	80·7	...	...	...	......	......	...	......	......	36·1
Mozufferpore	Mozufferpore	...	5	3	...			8·7	12·5	...	...	1	1	...			...	1	2	...	3	54·5	12·9	...	......	...	......	7·5	20·8	......	64·1
Durbhanga	Durbhanga	...	10	6	...	...		10·7	17·8	...	...	5	1	1	...	1	...	1	2	2	3	167·0	6·8	6·6	...	12·0	...	4·7	14·0	23·7	48·8
Sarun	Chupra	...	9	3	...	...	...	11·4	13·0	...	...	1	4		...	...	3	...	2	...	2	36·0	39·2	...	...	......	16·4	......	16·6	...	29·9
Bhagulpore	Bhagulpore	...	10	6	...	...	...	13·1	18·1		...	3	2	1	1	2	1	1	...	...	5	150·7	19·2	5·9	8·3	24·9	4·8	5·6	...	......	72·2
Monghyr	Monghyr		12	2	...	...	...	14·0	8·3	...	...	3	1	...	1	...	4	...	2	...	3	115·1	5·4	...	9·1	...	20·1	...	16·3	......	43·5
Purneah	Purneah	1	3	5	...		311·4	17·0	27·[illegible]	...	...	1	...	...	...	...	2	1	2	...	1	185·7	...	...	...	...	31·7	18·2	56·1	......	64·4
Puri	Puri	...	13			...		27·6				2	1			1	2	3	1	3		343·2	28·[illegible]	...	...	25·0	15·7	38·5	15·6	60·0	...
	TOTAL ...	3	420	158	...		1·0	23·9	21·6			[illegible]	[illegible]	[illegible]	21	22	95	[illegible]	[illegible]	41	[illegible]	174·8	[illegible]	8·3	9·5	11·5	18·2	15·0	23·3	22·4	58·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 18th February 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 16th February 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 16th February 1889.			Week ending Saturday, the 18th February 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,550	4,39,270	7,869	1,990	4,08,131	7,363
Jute	133	93,725	1,738	104	67,569	1,148
Firewood	194	1,25,125	1,851	125	60,510	911
Other articles	1,115	2,30,470	3,653	1,060	2,55,760	3,992
Total ...	2,998	8,88,590	15,111	3,279	7,91,970	13,414

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	267,324	8,21,650 3 0	28,68,141 0	5,95,176 5 4	16,813 15 5	9,33,640 7 9	67,042½	105,822½	172,865
Or per mile of railway	......	213 7 9	......	393 2 10	11 1 9	616 12 4	......	......	......
For previous 5 weeks of half-year	1,121,812	13,46,700 10 0	1,37,10,331 0	29,59,736 13 0	80,807 13 4	43,87,245 4 4	307,833½	463,826½	771,459½
Total for 6 weeks ...	1,389,136	16,68,350 13 0	1,65,18,472 0	35,54,913 2 4	97,621 12 9	53,20,886 12 1	374,676½	569,648½	944,324½
Comparison.									
Total for corresponding week of previous year	280,862½	3,18,875 2 0	29,24,453 10	7,12,785 7 0	24,702 6 1	10,56,362 15 1	64,630	110,806	175,436
Per mile of railway corresponding week of previous year ...	......	210 10 5	......	470 14 0	16 5 1	697 13 6	......	......	......
Total to corresponding date of previous year	1,647,657½	19,20,705 10 2	1,68,21,454 20	40,60,441 6 0	1,41,785 5 10	61,22,932 6 0	396,957	632,186	1,029,143

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,56,363	698	1,513¾	9,33,640	617	1,513¾	3,94,81,698	580	1,513¾	3,70,37,165	553	......	18,44

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 9th February 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,129	6,361 14 0	21,523 10	1,608 13 0	39 12 0	8,010 7 0	1,861	1,221	3,08
Or per mile of railway	212	111 3 7	376 20	28 2 0	0 11 1	140 0 8	......	......	......
For previous 5 weeks of half-year	56,006	29,843 6 0	1,13,814 20	7,656 0 0	170 8 10	37,670 7 10	8,554	2,732	11,286
Total for 6 weeks ...	68,135	36,205 4 0	1,35,337 30	9,265 6 0	210 4 10	45,680 14 10	10,415	3,953	14,368
Comparison.									
Total for corresponding week of previous year	15,785½	9,114 7 5	35,440 30	2,287 15 0	63 13 6	11,466 3 11	1,804	590	2,394
Per mile of railway corresponding week of previous year ...	276	159 5 6	619 30	40 0 0	1 1 10	200 7 4	......	.. .	......
Total to corresponding date of previous year	86,137	47,517 3 9	2,04,965 30	12,904 4 0	335 1 9	60,756 9 6	11,218	3,374	14,592

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		R	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,466	200	57½	8,010	140	57½	4,40,903	171	57½	4,13,700	161	......	27,203

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,661	458 1 0	10,288 0	220 8 0	8 0 0	686 9 0	333½	160	493½
Or per mile of railway	......	38 2 0	......	18 6 0	0 10 8	57 3 5	......	......	......
For previous 5 weeks of half-year	11,787	2,002 15 0	1,03,344 30	2,537 7 0	36 1 8	4,576 7 8	1,609½	717	2,326½
Total for 6 weeks ...	14,448	2,461 0 0	1,13,632 30	2,757 15 0	44 1 8	5,263 0 8	1,943	877	2,820
Comparison.									
Total for corresponding week of previous year	2,361	395 6 0	17,952 20	299 5 0	6 1 3	700 12 3	347	146	493
Per mile of railway corresponding week of previous year ..	......	32 15 2	......	24 15 1	0 8 1	58 6 4	......	......	......
Total to corresponding date of previous year	18,595	3,080 0 1	1,25,446 30	2,581 13 0	56 11 9	5,727 8 10	2,012	946	2,958

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	701	58	12	687	57	12	41,248	76	12	39,375	73	......	1,873

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, on 74⅞ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,736	4,286 14 0	67,187 0	6,661 8 0	76 0 0	11,024 6 0	746	1,097½	1,843½
Or per mile of railway	.. .	57 5 0	......	89 0 11	1 0 3	147 6 2	......	......	......
For previous 5 weeks of half-year	24,536	18,141 13 0	4,62,945 20	19,610 14 0	395 13 6	38,148 8 6	3,124	4,102½	7,226½
Total for 6 weeks ...	30,272	22,428 11 0	5,30,132 20	26,272 6 0	471 13 6	49,172 14 6	3,870	5,260	9,130
Comparison.									
Total for corresponding week of previous year	5,252½	3,899 9 2	97,132 20	4,046 1 0	77 9 6	8,023 3 8	719	1,438	2,157
Per mile of railway corresponding week of previous year ...	......	52 2 1	... ..	54 1 6	1 0 7	107 4 2	......	......	......
Total to corresponding date of previous year	28,182	20,694 12 11	5,51,324 0	26,826 13 0	803 3 6	48,323 13 5	3,989	9,471	13,460

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74⅞	8,023	107	74⅞	11,024	147	74⅞	3,84,053	114	74⅞	3,13,675	93	......	70,378

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, on 22½ miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,541	5,035 1 0	7,870 30	270 13 0	7 10 0	5,313 8 0	905	63	968
Or per mile of railway	......	226 4 8	... ..	12 2 9	0 5 6*	236 12 11	......	......	.....
For previous 5 weeks of half-year	90,243	22,920 14 0	43,746 30	1,513 3 0	34 14 10	24,408 15 10	4,275	288	4,563
Total for 6 weeks ...	109,784	27,955 15 0	51,617 20	1,784 0 0	42 8 10	29,781 7 10	5,180	351	5,531
Comparison.									
Total for corresponding week of previous year	30,339	8,425 9 1	8,911 30	355 15 0	5 14 0	8,787 0 1	1,036	64	1,100
Per mile of railway corresponding week of previous year ...	......	378 10 10	......	15 13 11	0 4 3	391 15 0	... ..	......	...
Total to corresponding date of previous year	127,751	32,926 9 4	47,152 0	1,650 5 0	36 10 9	34,613 9 1	5,413	527	5,940

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	8,787	395	22½	5,314	239	22½	2,27,842	228	22½	2,33,163	233	5,321	..

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 2nd February 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.*	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	124,730	63,480 0 0	5,71,580 0	94,440 0 0	23,630 0 0	1,86,550 0 0	21,999	25,444	47,443
Or per mile of railway ...	185	102 0 *0	849 0	140 0 0	*14 0 0	256 0 0	... ..		
For previous 4 weeks of half-year	488,775	2,50,600 0 0	19,07,510 0	4,54,710 0 0	59,080 0 0	7,64,450 0 0	79,603	100,836	180,439
Total for 5 weeks ...	613,505	3,19,140 0 0	24,79,090 0	5,49,150 0 0	82,710 0 0	9,51,000 0 0	101,602	135,280	236,882
Comparison.									
Total for corresponding week of previous year	†165,638	*a*1,03,889 0 0	4,67,685 0	78,536 0 0	16,958 0 0	1,99,083 0 0	22,299	23,393	45,692
Per mile of railway corresponding period of previous year ...	288	161 0 0	710 0	122 0 0	*7 0 0	200 0 0	... .	.. .	
Total to corresponding date of previous year	731,041	3,72,812 0 0	26,03,170 0	4,26,205 0 0	72,857 0 0	8,71,374 0 0	107,312	118,879	226,191

* Excluding of steam-boat earnings.
† Includes monthly tickets.
a Due to moon eclipse and larger fish traffic earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,99,083	309	673	1,86,550	277	645	82,21,080	290	673	*91,32,316	308	9,11,236	...

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	23,770	8,880 0 0	52,860 0	2,570 0 0	100 0 0	11,550 0 0	3,597	2,075	5,672
Or per mile of railway ..	190	71 0 0	423 0	20 0 0	1 0 0	92 0 0	......	......	......
For previous 4 weeks of half-year	91,680	32,730 0 0	1,65,380 0	9,140 0 0	3,360 0 0	45,230 0 0	13,326	7,707	21,033
Total for 5 weeks ...	115,450	41,610 0 0	2,18,240 0 0	11,710 0 0	3,460 0 0	56,780 0 0	16,923	9,783	26,705
Comparison.									
Total for corresponding week of previous year ...	*31,070	9,565 0 0	53,900 0	3,352 0 0	75 0 0	12,992 0 0	3,303	1,907	5,210
Per mile of railway corresponding period of previous year ..	240	76 0 0	431 0	27 0 0	1 0 0	104 0 0	......	......	......
Total to corresponding date of previous year	129,275	45,858 0 0	2,19,253 0	13,125 0 0	2,493 0 0	60,976 0 0	16,515	9,535	26,050

* Includes 7,800 monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,992	104	125	11,550	92	125	5,66,560	103	125	*5,99,018	109	32,458	......

* Audited up to week ending 22nd December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd February 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,035	4,910 0 0	14,780 0	1,400 0 0	300 0 0	6,610 0 0	2,402	702	3,104
Or per mile of railway	163	57 0 0	172 0	16 0 0	4 0 0	77 0 0	......	......	......
For previous 4 weeks of half-year	51,900	17,170 0 0	50,720 0	5,720 0 0	660 0 0	23,550 0 0	9,226	2,336	11,562
Total for 5 weeks ...	65,935	22,080 0 0	65,500 0	7,120 0 0	960 0 0	30,160 0 0	11,628	3,038	14,666
Comparison.									
Total for corresponding week of previous year	13,637	4,103 0 0	13,865 0	833 0 0	283 0 0	5,219 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year ..	161	48 0 0	155 0	10 0 0	3 0 0	61 0 0	......	......	......
Total to corresponding date of previous year	69,007	22,485 0 0	77,850 0	5,809 0 0	1,072 0 0	29,366 0 0	22,425	3,095	25,520

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 4th February 1888.			Receipts for week ending 2nd February 1889.			Total receipts from 1st April 1887 to 4th February 1888.			Total receipts from 1st April 1888 to 2nd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,219	61	86	6,610	77	86	2,56,304	67	86	*2,52,097	67	......	4,207

* Audited up to week ending 22nd December 1888.

REGISTERED No. 29.

No. 9 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 27, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE OPIUM DEPARTMENT, 1887-88.

REVENUE DEPARTMENT—MIS. REVENUE.

Calcutta, the 26th February, 1889.

RESOLUTION.

READ—

A letter No. 93B, dated the 29th January, 1889, from the Officiating Secretary to the Board of Revenue, L. P., forwarding the reports of the Opium Agents of Behar and Benares for the year 1887-88.

The report submitted by the Board of Revenue on the present occasion is in more than one respect to be specially commended. It is considerably shorter and more concise than any of its immediate predecessors, and this has no doubt resulted to some extent from what is in itself a decided improvement, viz., the plan of reviewing the operations of both Agencies together, instead of separately as in former years. The most prominent features of the season's cultivation are, moreover, for the first time illustrated by a series of useful diagrams, which show at a glance, in the case of each Agency, the percentage of cultivation under poppy, the extent of land irrigated, and

the average produce per bigha. In future reports a further improvement may perhaps be effected by combining these maps, so as to make each include both Agencies, and in this way carry out the reform noticed in the case of the review itself.

2. Settlements were curtailed by 35,178 bighas, while the area actually cultivated showed a still further contraction, being 40,711 bighas short of that of the preceding year; but, although there was this decrease in area shared in by both Agencies, there was an increase in the quantity of opium produced, amounting to 10,609 maunds at Patna and 4,856 maunds at Benares. The quality of the drug, also, appears to have been generally finer and of a higher consistence than usual, and in the Benares Agency it is said to have been better than has been reported for years. To these excellent results climatic influences no doubt largely contributed, for the weather, although by no means uniformly favourable throughout the year, is said to have been decidedly so at the critical time of lancing and collecting the juice; but, allowing for this, the Lieutenant-Governor considers that the department is to be congratulated on its success in extending the system, to which special attention was drawn in last year's Resolution, of limiting the area of cultivation and effecting settlements to the greatest advantage by insisting upon the judicious selection of the best and most conveniently situated lands, as well as of experienced and successful cultivators only. The extension of cultivation was formerly the object of Government, but a departure was made in the year 1885-86 in consequence of the large stock of opium in hand at the commencement of that season, and orders were then passed with a view to prevent any further increase in production. The change of policy thus initiated has recently been given a still more pronounced turn by the issue of instructions directing a specific reduction of cultivation, a step necessitated by the further accumulation of an excessive reserve both at Calcutta and in the factories. These orders, it is explained by the Benares Agent, were not received till after the settlements had commenced and had made fair progress: but nevertheless it appears from the figures given that a loyal effort was made to give effect to the wishes of Government. Unremunerative tracts were abandoned, advances refused to unsatisfactory cultivators and bad villages, inferior cultivation in the neighbourhood of large towns closed, and by these means the area, which the Agent had been desired to limit to 425,000 bighas, actually reduced to 427,569 bighas. This is all the more creditable, as Mr. Rivett-Carnac reports that in the Benares Agency the cultivation of opium is gaining in popularity, and nothing causes so much disappointment among the cultivators as an order limiting its production. In the Behar report the subject of contracting the cultivation is practically left unnoticed, being deferred till next annual report, the decrease in the area of settlement being attributed to the lateness of the rains. The Lieutenant-Governor does not doubt that the action of the officers of the Behar Agency during the current year will show that they have understood and given effect to the orders of Government on this subject. As regards the quality of the produce, a remarkable advance is noticeable in both Agencies, and particularly in Benares, in the deliveries of opium of a consistence of over 70°. From Mr. Rivett-Carnac's observations on this subject, it would appear that opium of a consistence above 75° is too stiff to be readily worked down to the prescribed standard, a fact which should be borne in mind, lest attempts to improve quality, as tested by consistency, be pushed too far. There was a satisfactory increase in the deliveries of pussewah.

3. In Behar all outstanding balances were recovered, it is said, without any difficulty or complaint on the part of the cultivators, and the fact is highly creditable to all of the officers concerned. In Benares, the Agent shows that out of a balance of Rs. 10,91,082, which had accumulated on account of advances for opium during the years 1879-80 to 1887-88, Rs. 5,375 only now remain to be adjusted, and the enquiries made indicate that the greater portion of this will be recovered without hardship to the cultivators. The progress in the matter of recovery has no doubt been slow, but this has been due to the considerate policy observed under the orders of Government, and the final result leaves little to be desired.

4. It is reported that the orders of Government requiring the sanction of the officers of the department to prosecutions under the Opium Act continue to work well, petty offenders against the letter of the law being left unharassed, and only real culprits brought to justice. The assurance is satisfactory, but the figures given disclose nothing of importance, there having been 1,151 prosecutions and 976 convictions, against 1,134 prosecutions and 968 convictions in 1886-87. The subject of placing on a legal footing the present system of granting licenses for the cultivation of the poppy has, during the year under review, been disposed of in the manner suggested by the Conference convened to consider the difficulty brought to the notice of Government by the Board. Revised forms of licenses and their counterfoils have now been issued with the approval of Government.

5. The thanks of Government are due to the Board and to the Opium Agents for their efficient supervision of the Department during the year, and the Lieutenant-Governor has read with pleasure the generally favourable remarks made on the work of the officers generally. These will, as usual, be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

REPORT ON THE STATE OF THE SALT MARKET FOR THE THIRD QUARTER OF 1888-89.

No. 132B., dated Calcutta, the 13th February 1889.

From—K. G. Gupta, Esq., Offg. Secy. to the Board of Revenue, L.P.,

To—The Secretary to the Government of Bengal, Financial Department.

Salt.

F. M. Halliday, Esq.

I am directed by the Board of Revenue to submit the following report on the state of the salt market for the third quarter of 1888-89, comprising the months of October, November and December 1888.

2. The quantity of salt of every description cleared during the quarter under report amounted to 24,20,274 maunds 38 seers 9 chittacks, against 25,58,891 maunds 37 seers 10 chittacks in the previous quarter, and 27,10,003 maunds 8 seers 2 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 56,74,386, against Rs. 59,62,538-12 in the previous quarter, and Rs. 50,56,522-2-8 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

Table I.

	Cuttack.	Pooree.	Balasore.
	Mds. s. t.	Mds. s. t.	Mds. s. t.
Balance at close of the last quarter	2,541 5 0	2,16,433 35 0	......
Manufactured or added during the quarter	......	4 33 60	......
Total ...	2,541 5 0	2,16,438 28 60	......
Sales during the quarter	500 0 0	33,827 33 60	......
Wastage	1,682 5 0	6,774 25 0	......
Total ...	2,182 5 0	40,602 18 60	......
Balance at the close of the quarter	359 0 0	1,75,836 10 0	......

4. The above statement shows that the total sale of excise salt during the quarter under review amounted to 34,327 maunds 33 seers 60 tollahs, against 36,800 maunds in the previous quarter, and 59,660 maunds 5 seers in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

Table II.

	1886-87.		1887-88.		1888-89.	
	Third quarter.		Third quarter.		Third quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool Pungah	17,07,568	15,70,078	15,97,645	18,16,109	19,92,487	17,23,633
Foreign Kurkutch	9,18,290	7,38,961	6,56,945	5,62,376	5,65,600	4,37,471
Indian Kurkutch	1,60,451	1,52,817	1,54,951	1,57,000	1,50,650	1,31,960
Total ...	27,86,309	24,61,856	24,09,541	25,35,485	27,08,737	22,93,064

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1886-87.		1887-88.		1888-89.	
	Third quarter.		Third quarter.		Third quarter	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	1,60,451	1,52,817	1,54,951	1,57,000	1,48,650	1,29,960
Coconada		...	...		2,000	2,000
Total ..	1,60,451	1,52,817	1,54,951	1,57,000	1,50,650	1,31,960

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter, as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	Third quarter of 1887-88.	Fourth quarter of 1887-88.	First quarter of 1888-89.	Second quarter of 1888-89.	Third quarter of 1888-89.
	Mds.	Mds	Mds.	Mds.	Mds.
Sulkea Government Golahs	9,86,779	10,36,591	8,94,651	9,52,679	15,29,709
Chittagong do. do.	1,68,566	95,487	71,969	43,462	1,31,640
Total ..	11,55,345	11,32,078	9,66,620	9,96,141	16,61,349

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review, and the corresponding quarters of the previous two years, are shown in the table below :—

TABLE V.

PERIOD.	*Viâ* Balikhâll	*Viâ* Sankrail.	*Viâ* Gewakhally.	*Viâ* Kidderpore.	*Viâ* Balliaghatta	*Viâ* Ruthtollah Ghât.	By the East Indian Railway	By the Eastern Bengal and South-Eastern Railways or *viâ* Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Third quarter of 1886-87 ...	3,24,117	1,46,119	97,376	59,825	4,62,515	1,10,464	9,92,929	1,36,731
Ditto of 1887-88 ..	2,78,480	1,51,959	1,03,292	76,700	5,26,644	19,095	9,18,381	1,90,010
Ditto of 1888-89 ...	2,42,967	1,56,790	88,024	81,153	5,96,465	3,504	8,01,217	2,06,864

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 8,808 maunds 20 seers as noted in the margin, against 8,703 maunds in the previous quarter, and 48,240 maunds in the corresponding quarter of the previous year.

	Mds.	s.	c
October ...	4,556	0	0
November ...	2,126	10	0
December ...	2,126	10	0
Total ...	8,808	20	0

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow :—

	Tons.
October	14,790
November	39,010
December	33,460
Total ...	87,260

No shipments were reported during the quarter under review for the port of Chittagong.

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter, as compared with those obtaining during the same period last year :—

TABLE VI.

Description of Salt.	Prices on the 15th October		Prices on the 31st October		Prices on the 15th November		Prices on the 30th November		Prices on the 15th December		Prices on the 31st December	
	1887.	1888.	1887.	1888.	1887.	1888.	1887.	1888.	1887.	1888.	1887.	1888.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah	60	86	62	88	66	91	71	95	72	95	73	99
French kurkutch	53	62	53	60	54	60	54	60	52	60	52	60
Jedda ditto	52	60	54	59	52	60	52	60	51	60	50	60
Bombay ditto	50	77	50	90	40	92	48	88	48	90	48	90
Madras ditto	.	...	...	.	..	..	...	...		...	...	...
Italian ditto ..	53	62	53	60	54	60	53	60	52	60	52	60
Muscat ditto .	44	58	45	56	44	58	47	57	48	58	48	58
Ceylon ditto . ..		.		.	...	.. .	. .	...	...	.. ..	... .	.
Rock	53	53	53	55	55	56	55	56	65	75	65	75

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Naraingunge during the quarter under review and the corresponding quarter of 1887-88 :—

TABLE VII.

Port.	Description of Salt.	Admitted into bond.		Cleared.	
		Third quarter of 1887-88.	Third quarter of 1888-89.	Third quarter of 1887-88.	Third quarter of 1888-89.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong ...	Liverpool	1,24,730 0 0	1,20,669 0 0	1,14,854 10 6	85,627 16 0
	British Burmah	. .	. ....	0 4 0	.
	Jedda	. ...	......	0 23 0	..
	Madras		......	0 10 0	1 2 0
	Bombay	.. ..	. ....	0 2 0	
	Muscat	... ..	......		0 16 0
Cuttack ..	Liverpool	...	......	2 13 5	.
Naraingunge . ..	Liverpool ...	.	..	.	7,920 0 0
	Total ...	1,24,730 0 0	1,20,669 0 0	1,14,857 22 5	93,748 34 0

No transactions in sea-imported salt have been reported for the quarter from the ports of Pooree and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 23rd February 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.				
		Western Districts.		
Burdwan Divn.	1	Burdwan Feb. 23, '89	0·36	Weather—warm with clouds. Prospects of crops very fair. *Rubbi* 12 annas. Prices of rice continue to fall, and are now 19 seers per rupee on the average.
		Culna ..	0·25	
		Raneegunge ...	0·16	
	2	Bankoora „ 23, '89	0·32	Weather—cold and occasionally cloudy. Prospects of *rubbi* continue fair. The late rain has enabled the cultivators to plough the land for the next rice crop. No change in prices.
	3	Birbhum „ 23, '89	0·35	Weather—seasonable. *Rubbi* a twelve-anna crop, also sugarcane. Lands are being ploughed.
		Rampur Hât .	0·96	
	4	Midnapur „ 23, '89	4·01	Weather—cool after the recent rain. The rain has done good to both *boro* and *rubbi*.
	5	Hugli „ 23 '89	0·85	Weather—seasonable. *Rubbi* crops will have an average outturn, and are being harvested.
		Serampur .	1·05	
		Jehanabad .	1·12	
		Howrah „ 25, '89	1·59	Weather—rather warm for season. State and prospects of crops good.
		Ulubarya ...	2·41	
		Central Districts.		
Presidency Divn.	6	24-Perghs. Feb. 26, '89	1·51	Weather—rainy in middle of week: now daily getting warmer. Prospects of standing crops satisfactory. Manufacture of sugar continues. Tillage going on rather briskly since the recent rain.
	7	Nuddea „ 23 '89	0·11	Weather—seasonable. Prospects of *rubbi* favourable, and improvin in Kushteag. Harvesting of linseed in progress. Ploughing operations for *aus* facilitated by the slight rain.
		Kooshtea ...	0·23	
		Chooadanga ..	0·20	
		Ranaghat ..	0·41	
	8	Khoolna „ 23, '89	0·28	Weather—cold and seasonable. *Boro* and *rubbi* crops doing well.
	9	Jessore „ 23, '89	0·70	Weather—first part of the week rainy. The heavy shower on the night of 20th has been beneficial to ploughing.
		Jhenidah ..	0·15	
		Magoora	[illegible]	
		Narail	0·71	
		Bongong ..	0·90	
	10	Moorshedabad „ 23, '89	0·35	Weather—bright and cool. Lands are being prepared for *bhadoi* crop, and prospects of *rubbi* are favourable.
		Lalbagh ..	0·21	
		Kandi	0·31	
		Jangipur .	0·80	
Rajshahye Divn.	11	Dinagepur „ 23, '89	0·11	Weather—cloudy and rainy with occasional cold winds. The crops on the ground are doing pretty well, the rain having improved the prospects. Prices remain unaltered.
		Thakurgaon . .	0·57	
	12	Rajshahye „ 23, '89	0·52	Weather—still fairly cool. Condition of spring crops fair. Recent rain has done harm in places. Ploughing going on. Rice sells at 16¾ seers per rupee.
		Nattore ...	0·20	
		Nowgong ..	0·15	
	13	Rungpur „ 23, '89	0·25	Weather—seasonable. Prospects of standing crops good. Price of rice stationary.
		Gaibanda	0·22	
	14	Bogra „ 23, '89	0·28	Weather—seasonable. Standing crops promise well. Sugarcane is being cut and crushed. Land is being ploughed for early sowings. Pulses are being harvested. Price of rice stationary.
		Sherpore ...	0·77	
		Nowkhilla ...	0·95	
	15	Pubna „ 23, '89	0·15	Weather—cloudy with slight rain now and then. Prospects of *rubbi* crops better.
		Serajgunge ...	0·03	
	16	Darjeeling „ 23, '89	0·88	Weather—cold and cloudy. State and prospects of crops good.
	17	Julpigoree „ 23, '89	0·68	Weather—cloudy. Preparation of lands for *aus* and jute continues. Cutting and crushing of sugarcane in progress. Tobacco is being cut. Common rice sells at 17 seers per rupee.
		Eastern Districts.		
Dacca Divn.	18	Dacca Feb. 23, '89	Nil	Weather—seasonable. Lands are being ploughed for early rice. Mustard has nearly been gathered. *Boro* paddy thriving. Prospects of crops good.
		Manickgunge .	0·04	
		Munshigunge ...	0·8	
	19	Furreedpur „ 23, '89	0·07	Weather—cloudy, cool with continual threats of rain, which come to very little. The weather is very favourable for preparation of land for coming rice crops. Cold-weather crops doing well. Rain would make them remarkably good.
		Madaripur ...	0·66	
	20	Backergunge „ 22, '89	0·81	Weather—seasonable. Prospects of *rubbi* crops good.
	21	Mymensingh „ 22, '89	Nil	Weather—cloudy. Prospects of crops good.
		Jamalpur ...	0·33	
Chittagong Divn.	22	Chittagong „ 26, '89	0·31	Weather—seasonable. Winter crops thriving. Prices steady.
	23	Noakholly „ 22, '89	0·17	Weather—seasonable. Harvesting of *rubbi* crops continues. Soil for *aus* crops is being prepared.
		Fenny ...	0·35	
	24	Tipperah „ 21, '89	1·13	Weather—seasonable. Winter crops are progressing well. More rain is wanted.
	25	Chittagong Hill Tracts. „ 19, '89	Nil	Weather—cold and foggy in the moring and hot at noon. *Jum* cutting continues. Gathering of mustard is now over. Tobacco and chillies progressing. Rain much wanted.
		Hill Tipperah „ 21, '89	Nil	Weather—unsettled, occasionally cloudy and warm. *Jum* cutting continues. No important crop in the fields.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIVN.			
26	Patna Feb. 23, '89	1·18	Weather—getting warmer. Mustard, *mussoor* and peas are being harvested. Prospects of standing crops, including poppy, still favourable, though damage done to gathered and ripe crops by recent heavy rain. Poppy damaged in some places by hail. Prices stationary.
	Barh ...	2 55	
	Behar ...	1·06	
	Dinapur ...	0 60	
	Hilsa ...	0·50	
	Bickrum ...	1 00	
27	Gya „ 23, '89	2·80	Weather—fair, getting warmer gradually. *Rubbi* and poppy have been injured by the last rain and hail. Opium collections are going on in the early sown crop.
28	Shahabad „ 23, '89	0·64	Weather—unsettled. *Rubbi* crops continue to be favourably reported. Rain has done slight damage to peas and *mussoor*. Hail did damage to poppy over a limited area, but on the whole conditions are favourable to the collection of the drug which has now begun. Prices stationary with a slight tendency to fall.
	Buxar ...	0 72	
	Sasseram ..	0 45	
	Bhabuah	0·70	
29	Durbhunga „ 23, '89	0 51	Weather—bright and getting hot. *Rubbi* prospects continue favourable. *Cheena*, *mung* and paddy are being sown. Poppy in low lands has been to some extent injured by the late rain. Mustard being harvested. Prices remain stationary.
	Madhubani ...	0 69	
	Tajpur ...	1·75	
30	Mozufferpur „ 23, '89	1·29	Recent rain prolonging cold weather. *Rubbi* generally doing well, though somewhat battered by rain. *Cheena* and *mung* have been widely sown in north, and are germinating well.
	Hajipur ...	1 11	
	Sitamarhi ...	0 42	
31	Sarun „ 23, '89	0·80	Weather—seasonable. The *rubbi* crops have been slightly injured by the late rain. Prospects, however, continue favourable, and 12 annas outturn expected. Sugarcane planting goes on.
	Sewan	0 76	
	Gopalgunge	1 30	
32	Chumparun „ 23, '89	0·57	Weather—bright, days warm, nights cool. The recent rain has benefited the standing *rubbi* crops, though slight damage has been caused by excess fall and the hail which accompanied it in places. Poppy is reported to have suffered to some extent in the Betteah sub-division. Extraction of drug has commenced, and the crop generally is in flower. Prices fairly steady.
	Betteah	1 57	
BHAGULPORE DIVN.			
33	Monghyr „ 23, '89	0·61	Weather—seasonable; cloudy at times. Standing crops doing well.
	Beguserai ...	2 05	
	Jumooe .	0 78	
34	Bhagulpur „ 23, '89	0 62	Weather—stormy and cloudy on two days; since then seasonable. Peas, gram and *mussoor* are being harvested in places. The storms have damaged ripening crops, especially *rahar*, castor and linseed, also the mango blossoms. Prospects of *rubbi* crops fair.
	Banka ...	0·54	
	Soopool	0 95	
	Madhepurah	1·10	
35	Purneah „ 23, '89	0·08	Weather—getting warmer daily. Light showers *Tori* (mustard) and tobacco are being harvested; fair crops expected. Preparation for *bhadoi* sowings commenced
	Arrareah ...	0 36	
36	Maldah „ 23, '89	0 05	Weather—cool and dry; occasionally cloudy. Prospects of *rubbi* crops favourable in places where they were not damaged by the late hail-storm. Tillage for *bhadoi* crops has commenced. *Boro* is being transplanted.
	Chanchal ...	0 13	
	Sibgunge ...	0 27	
	Gajole ...	0 33	
37	Sonthal Perghs. „ 23, '89	0 84	Weather—some storms with rain; now cold. Sugarcane is being planted. *Rubbi* good, but slightly damaged by rain. Mango blossoms also damaged by rain.
	Deoghur ..	0 26	
	Jamtara ...	0 30	
	Pakur ...	0 60	
	Rajmahal ...	0 32	
ORISSA			
ORISSA DIVN.			
38	Cuttack Feb 22, '89	0 33	Weather—cool and fair *Sarad* and *rubbi* crops are being gathered. *Dalua* progressing well. Price of rice stationary.
39	Pooree „ 21, '89	0·15	Weather—seasonable. *Dalua* crop is thriving. *Rubbi* crops are doing well. Rain is wanted for *mung* crop. Common rice 19 seers 1 chittack per rupee in the Sudder sub-division and 15 seers 1 chittack in the Khoordah sub-division.
40	Balasore „ 22, '89	0 72	Weather—seasonable Rainfall of 19th was pretty general all over the district, and very beneficial.
CHOTA NAGPORE			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.			
41	Hazaribagh Feb 22, '89	0·78	Weather—cloudy and cold for the season. Weather unfavourable to *mahua*, mango and standing *rubbi*. Ploughing for early rice in progress. Lancing of poppy commenced. Prospects bright. Coarse rice selling at from 14 to 18 seers per rupee.
42	Lohardugga „ 23, '89	0 75	Weather—seasonable. Rain with hail. The rain will do some good to the standing *rubbi* crops. Land is being ploughed Prices stationary.
	Palamow ...	0 23	
43	Singbhoom „ 22, '89	0 33	Weather—seasonable There was rain one day in the week all over the district. *Rubbi* is being harvested; outturn 6 to 8 annas. Prices stationary.
44	Manbhoom „ 23, '89	0·57	Weather—cloudy, with occasional storms. The rain of the week will facilitate ploughing. Prospects of *rubbi* crops fair.
	Govindpur .	0 18	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 26th February 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of November 1888.

IMPORTS INTO CALCUTTA.

Places imported.	FOOD-GRAINS. Rice and Paddy. Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	FIBROUS PRODUCTS. Jute, raw.	Gunny bags.†	OIL-SEEDS. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR. Drained.	Undrained.	TOBACCO. Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds	No.	Mds.	Mds.	Mds.	Mds.	Mds	Mds	Mds.	Mds	Mds.
BENGAL.																		
...wan ...	1,43,116	20,339	1,55,828	108	2,662	90	1,58,688	80	16,315	6,319	. ....	715	3	93	.	...	14	..
...hoom ..	47,410		47,410	... ..	17	... .	47,427	... .	9,245	... .	... ..	. ..	... .	4?4	.			.. ..
...apore ..	1,76,294	12,956	1,84,391	...	1,0?0		1,8?,401	1,436	1,050	3 084	. . .	. .	127	199		25?	87	
...hly	65,872	34,072	87,167	2,711	4,356	276	94,510	1,41,411	473,907	12,973	780	..	219	10	275	4,?68	4,57	242
...Pergunnahs ...	1,21 321	13,793	1,29,942	61	378		1,30,381	4,43,?80	253,29?	284	50	. ..	1,?06	..	5,383	15,580	1,54?	208
...ddea	21,708	68?	22,137	13,314	71,220	3,418	1,10,089	67,638	1,435	30,025	116	..	216	89	144	95	1,84?	286
...ulna	54,962	24,00?	69,962	. ..	575	..	70,537	58,560	......	150	... ..		...		125	6 250		
...sore ...	81,253	14,575	40,362	..	10,734	86	51,182	82,212	... ..	1,177	7	. ..	..		60	6,040	1,472	100
...orshedabad ...	11,718	.. . .	11,718	6,404	14,3?6	1,825	34,283	11,557		6,097	... ..	.. .	.. .	330	......	. . ..	.	......
...nagepore	23,121	. . ..	23,121	......	616	. .	23,737	35,486	296,195	1,477	... ..	. ....	1		.. .	. .		. .
...jshahye	3,990	......	3,900	..	18,933	50	22,973	68,337	11,725	5,259	.. ..	.		281	..	.. .		
...ngpore	.	... ..	..	1,088	311	......	1,399	1,07,151	29,400	310	......	.	14	..	......	...	308	13,378
...gra	26,171	... ..	26,171	. .		....	26,171	1,77,314	.	..			.. ..		......			
...bna	1,635	.. ...	1,635	346	2,562	.. .	4,54?	2,74,191	568,750	773	4,102		.. ..	. .	. ...	. . ..	210	. .
...arjeeling	.. .	......	. .	... .	.	. .	..	16,472	12?,3??	..	.	14,509	... .	. .			...	
...lpigoree	.. .	.. ...	..	...	. .	.. ...		70,159	147,770	..	.	10,766		..	......	..	..	1,319
...cca ...	10,736	.. .	10,736	204	1,708	...	12,6?8	3,92,346	. .	192	2,675	15	572	.	. ..			1
...rreedpore ...	14,855	378	14,591	.. .	21,100	... ..	35,751	2,01,354	210	3,402	503	5	198	1,327	..	225		175
...ckergunge ..	1,65,545	1,925	1,66,748	... .	1,000	... ..	1,67,748	7,318	...	... ..	2,857			.	.		.	...
...ymensingh .	2,298	.	2,298	204	......	.. ..	2,502	1,02,498	100	... .	1,322	..	.		..			
...pperah ..	21,550	300	21,738	... .	..	. .	21,738	1,100	. . .	..	.			.	..	.. .		.
...hittagong ..	2,904	..	2,904	..	... ..	. .	2,904	..	...			1,583	1,062	.	.	. .	..	
...oakholly ..	27,568	200	27,693	.	...	.	27,693	1,100	.		.		100					.
Total of Bengal ..	9,73,527	1,23,224	10,50,542	24,440	1,51,578	5,745	12,32,305	24,00,903	1,934,690	71,502	12,412	33,653	3,748	2,766	5,987	33,120	9,552	15,709
BEHAR.																		
Patna	1,382	......	1,382	21,318	38,764	13,012	74,476		2,0?0	1,66,361	11,345	. ..	122	2	1 615	829	173	2,223
Gya	.	. ....	...	..				... ..	505	11,561	..	..	. .	4	.	(90)	..	1?8
Shahabad	417	. ....	417	19,414	6,493	1,626	27,950	.. ...	525	18,508	188	34				2,628	1	
Mozufferpore ...	..	. . .	......	500	2,914	2,902	6,3?6	...		9,636	3?0				.		.	
Durbhunga ..	. . ..	.. ..	... ..	1,083	5,705	..	6 788		245	77,822	7,027		33		. .	179	125	120
Sarun	.		.. ..	3,745	6,341	54	10 140	525	665	13,166	1,?50		.	..	. .		13	
Chumparun .		... ..	...	..	939	1,617	2,5?6	..	..	21,554				. .	... .	6		
Monghyr	421	.	421	5,561	16,731	2?	2 ,741	1,729	525	11,815	1,740		.	. .	.		7	3
Bhagulpore .	159	.	159	5,?24	3,011	2,987	11,481	8?4	140	37,279	10,284		.	8	. .	2		. .
Purneah	189		489	1,190	7,661	40	9,383	2,705	28,04?	2 524	4,?70						1,835	...
Maldah	50	.	50	1,550	4,101	1,332	7,0?3	23,682		938		..	.	..		..	.	.
Sonthal Pergunnahs.	2	. ...	2	2,233	8,250	1,380	11,865		1,855	10,223	4,412			18?		...	.	... .
Total of Behar ..	2,920	..	2,920	61,918	1,00,913	25,008	1,90,759	29,475	34,620	3,81,?87	41,666	34	15?	199	1,61?	4,534	2,154	2,484
ORISSA.																		
Cuttack			..	. .	. .	... .	.	11		.	. .	.		...		. ..		. ..
Balasore	39,022	4,571	41,879	.	8	82	41,969	13,777	4,000	.	510			3			337	..
Total of Orissa ..	39,022	4,571	41,879		8	82	41,969	13,788	4,000		510			3		.	337	
CHOTA NAGPORE.																		
Hazaribagh	. . ..	....	. . .	. ....	600	.	600	.	2,?80	..	3?0	21?		5	3		.	
Manbhoom ..	.		..	..	..		..	.	875		.					.	..	
Total of Chota Nagpore.	...	.		......	600	.	600	......	3,255	...	310	21?		5	3			.. .
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	10,15,469	1,27,795	10,95,341	86,358	2,53,0?9	30,83?	14,65,635	24,44,16?	1 976,56?	4,52,889	54 898	33,900	3,903	2,973	7,605	37,454	12,043	18,193
OTHER PROVINCES.																		
Assam	6,687	241	6,838	80	..	.. .	6,918	10,707			12,950	1,08,7?5	5	33			10	
North-Western Provinces and Oudh	561	.	561	1,76,431	59,561	9 089	2,45,642	.. .	3 605	575 1 05,208	24 201	1,6?4	32,773	17	745	41?	.	20
Punjab	4	. ....	4	12,259	67,685	31?	80,263		.			1,3?7	1,475	. .	24	.	..	
Central Provinces		... .	...	1,552	2,683	32?	4,563							1			.	
Rajputana States ..	... ..	.	......		2,987	63?	3,624	...		.			533		..	.	...	.
Nepal	. . .	.. ..	......	201	..	..	201	..			.			.			.	...
Bombay ..		. .	......	.....	.			.	8,600			3	12 14?	2				11
Madras ..		.		... .	8,936		8,9?6	. ...			.	1	?14?	.	2,043		333	104
Burmah .	22	.	22	. .	99		121	..	14 1?0				1,7?1					29
Other places .	... .	. .	. .	12	.	120	132	.	2?,100				3	16	2,906	41,196	6	587
Grand Total of Imports in Nov. 1888	10,22,713	1,28,0?6	11,02,766	2,7?,983	3,95,050	41,324	18,16,123	24,54 873	2,025,270	5,58,672	92,049	1,45,0?0	8,749	3,042	13,323	79,032	12,392	18,711
Grand Total of Imports in Nov. 1887	9,68,106	93,821	10,20,743	2,17,059	6,03,328	28,672	18,75,802	25,47,347	2,845,085	6,18,960	83,881	1,52,488	43 303	1,704	51,013	72,683	52,16?	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of November 1888 *was as follows :—*

	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar, Drained.	Undrained.	Tobacco, Unmanufactured.	Manufactured.
EXPORTED FROM CALCUTTA— To Indian ports, viz.—																		
Bombay	1,54,615	60	1,54,652	......	12,402	. ..	1,67,054	......	1,034,917	......	. .	227	73	....	809	......	...	......
Other ports in Bombay	202	......	202	15	38		255	146	6,000	...	...		..	...	....	......	10	. . .
Madras .. .	1,381	......	1,381	.....	11,628	2,237	15,246	5	268,400	...	50	1	..	296	53	.		1
Other ports in Madras ...	1,07,334	.. ...	1,07,334	. .	1,975	. .	1,09,309	3,648	302 538	... .	.....	.	... .	3	4	..	20	27
Burmah	6,074	......	6,074	7,387	26,381	5,345	45,087	448	331,800	...	10	61	97	5	657	685	12,100	344
Other Indian ports	11	11	18	4	943	.....	965	...	211,800	......	102		20	.. .	990	50	1,010	93
Pondicherry ...	... .	......	......	297	146	......	443	.	175,000		. ...	...		... ..	..	......	.	..
Total of Inter-portal trade . .	2,70,617	71	2,70,661	7,703	53,513	7,582	3,39,359	4,215	2,3?0,455	.	171	291	190	304	2,532	735	13,740	?65
To Foreign ports— United Kingdom	22,711	. ....	22,771	81,077	55,691	... .	1,59,479	19,08,919	645 200	2,07,775	....	1,76,777	3,959	58	......	......	7	1
Other Foreign ports	3,54,486	1,677	3,55,534	1,677	36,189	13,028	4,06,433	3,46,610	5,615,329	1,31,046	14	3,302	3,004	1,487	434	1	152	202
Total of Foreign trade	3,77,197	1,677	3,78,245	82,754	?01,880	13,028	5,65,912	22,55,529	?,260,519	3,38,821	14	1,80,079	6,963	1,545	434	1	159	203
Grand Total of Exports in Nov. 1888	6,47,714	1,748	6,48,806	90,457	1,46,?0?	20,605	9,05,271	22,59,774	8,?00,974	3,38,821	185	1,80,370	7,153	1,849	2,956	7?6	14,199	668
Grand Total of Exports in Nov. 1887	9,44,493	9,310	9,50,312	2,77,023	2,92,54?	10,470	15,30,354	20,90,400	8,067,811	5,42,178	109	1,47,812	3,519	1,249	2,467	305	19,262	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of November 1888.

IMPORTS INTO CALCUTTA.

Specification of Routes.	Food-grains.					Fibrous Products.		Oilseeds.		Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar.		Tobacco.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Un-drained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	6,96,883	83,997	36,475	1,29,906	6,645	9,11,142	753,030	69,567	27,686	..	1,913	248	5,118	22,782	7,598	2,424
,, river steamers	37,358	241	,351	1,139	620	4,17,815	.	1,609	14,059	1,06,945	210	125	...	85	261	......
,, rail { East Indian Railway	1,43,273	40,701	2,38,702	1,99,813	33,367	... ..	58 875	4,68,019	48,187	3,977	37,919	969	1,283	4,796	335	316
,, rail { Eastern Bengal State Railway.	67,323	75	382	55,065	490	7,20,903	1,156,365	19,418	1,607	33,145	667	1,631	.. ..	4,068	308	15,271
,, road .. .	42 640	2,853	61	84	.	3,94,475	10,400	64	... ..	...	48	......	1,073	6,165	3,212	209
,, sea	35,266	166	12	9,043	202	10,538	46,600	... .	510	1,581	17,992	19	4,049	41,196	674	524
Grand total of Imports in November { 1888 ...	10,22,743	1,28,036	2,76,988	3,05,050	41,324	24,54,873	2,025,270	5,58,672	92,049	1,45,650	58,749	3,042	13,323	79,092	12,392	18,744
Grand total of Imports in November { 1887 ..	9,68,106	93,821	2,17,059	6,03,328	28,072	25,47,347	2,845,985	6,18,960	83,881	1,52,843	43,303	1,704	51,013	72,688	52,166	

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of November 1888.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European	Indian.	European.	Indian		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ..	4,70,245	11,430	677	1,522	37 853	60,482
Beerbhoom ..	2,39,652		106	693	16,529	47,705
Midnapore	3,05,358		6,133	.	26,325	15 260
Hooghly ..	1,54,921	8,950	849	141	2,703	79,045
24 Pergunnahs .	1,49,029	6,907	350	.. .	12,068	5,150
Nuddea ...	5,09,257	3,300	2,509	. ..	21,8·9	37,749
Khulna	1,06,8·8	.	125	..	5,615	..
Jessore	1,2·,039	110	948	.	32,816	2,410
Moorshedabad	1,10,8 1	2,200	370	17	5,602	9,450
Dinagepore ...	1,43,388	. .	58	24	9,767	3,955
Rajshahye ...	3,17,631	.	37	6	11,385	8,015
Rungpore ...	4,67,029	. .	74	13	11,738	805
Bogra	2,35,7·8	...	42	24	6,607	9,940
Pubna	2,12,785	.	594	15	43,045	750
Darjeeling	79,758	..	59	7	5,403	875
Julpigoree .	2,08,530	..	34	5	8,290	
Dacca	10,72,667	.	874	519	47,718	13,821
Furreedpore	5,18,·49	.	1,019		35,1·6	4,095
Backergunge .	2,83,165	.	602	... .	57,285	210
Mymensingh	1,59,768	. .	141	12	22,408	1,380
Tipperah ..			... ..	.. ..	10,325	
Chittagong ...	2,00,720	1,400	360	. ..	..	159,850
Noakholly ...	...	.....	.. ..	.. . .	10,420	.. .
Total of Bengal	61,08,506	34,·97	15,809	2,998	4,41,165	469,947
BEHAR.						
Patna ...	3,40,713	1,210	265	361	55,920	189,600
Gya ..	1,97,631	2,530	21	760	12,620	19,165
Shahabad .	5,71,347	9,900	4	381	2·,230	32,445
Mozufferpore ..	3,68,046	440	... .	163	12,243	7,210
Durbhunga ..	8,07,660	3,410	12	1,123	62,911	72,185
Sarun ..	6,12,675		24	44	22,549	24,9·0
Champarun ..	6,34,·62	110	41	89	28,124	23,·70
Monghyr ..	2,41,290	440	..	228	12,605	13,720
Bhagulpore ...	4,·2,730	4,180	54	345	21,385	31,905
Purneah .	3,16,382		94	1,028	7,021	1,400
Maldah ..		.	. ...		7,401	11,·49
Sonthal Pergunnahs	3,29,049	. .	99	725	2·,538	40,250
Total of Behar .	48,51,185	2·,220	614	5,247	2,90,547	467,089
ORISSA.						
Balasore .	2,15,572	... ..	5,966	119	16,777	51,950

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bag.
	European.	Indian.	European	Indian.		
CHOTA NAGPORE.	Rs.	Rs.	Mds.	Mds	Mds.	No.
Hazaribagh	65,835	3,080	5	35	9,926	980
Manbhoom	1,02,753		22	1,134	6,910	350
Total of Chota Nagpore	1,68,588	3,080	27	1,169	16,836	1,330
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ..	1,13,43,851	59,597	22,416	9,533	7,65,325	990,316
OTHER PROVINCES.						
Assam	6,03,288	... .	303	87	62,834	......
North-Western Provinces and Oudh	49,54,383	14,300	4,309	684	43,440	5·6,095
Punjab	16,77,312	4,840	1,696	9		449,120
Central Provinces ...	30,177	990	282	21	.	26,810
Rajputana States	54,747	...	137	...		32,805
Berar	68	·10	... ..			. . .
Nizam's Territory	.	...	2	. .	..	
Bombay	3,120	330	...	1,085	... .	1,040,917
Madras	53,105	447	842	18	. ..	570,938
Pondicherry	1,800	...	. .	. ..	. .	175,000
Burmah	2,64,490	600	503	...	.. ..	331,800
Other places	34,010	985	34	3,594	. .	6,200,519
Grand Total of Exports in November { 1888 ..	1,90,20,346	82,199	30,524	15,031	8,71,509	10,414,3·6
Grand Total of Exports in November { 1887 ...	1,47,67,440	79,067	30,015	12,733	8,20,513	9,830,597

The Sea-borne Trade of Calcutta in these Staples during the month of November 1888 *was as follows.*—

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom . ..	1,41,24,747	. ..	17,112	... ..	7,24,724	... ..
Other Foreign ports ...	1,34,116	.....	423	..	1,36,925	22,400
Total of Foreign Trade ...	1,42,58,863	......	17 535	. ..	8,61,649	22,400
From Indian Ports—						
Bombay	54,4·8	2,75,210	77	7,479	30,492	8,600
Madras	8,205		.....	262		..
Burmah . .	8,581	2,945	. .	...	.	14,100
Other Indian ports ..	910	.. ..	. . ..	15	......	3,500
Total of Interportal Trade	72,144	2,78,155	77	7,756	30,492	26,200
Grand Total of Imports in November { 1888	1,43,30,997	2,78,155	17,612	7,756	8,92,141	48,600
Grand Total of Imports in November { 1887	1,13,03,747	78,345	14,995	9,301	8,90,285	2,200

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of November 1888.

Specification of Routes.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	2,98,612	10,350	4,178	.....	3,56,430	113,432
,, river steamers	12,56,385	.	4,265	557	33,634	47,869
,, rail ... { East Indian Railway	1,24,80,930	59 400	7,792	9,476	3,80,862	1,603,140
,, rail ... { Eastern Bengal State Railway	40,37,166	3,540	6,094	155	78,100	55,440
,, road	1,66,351	5,497	490	27	3,771	3,535
,, sea	7,80,872	3,132	7,705	4,816	13,802	8,590,974
Grand Total of Exports in November ... { 1888 ..	1,90,20,346	82,199	30,524	15,031	8,71,509	10,414,380
Grand Total of Exports in November ... { 1887 ..	1,47,67,440	79,067	30,015	12,733	8,20,513	9,830,597

STATISTICAL DEPARTMENT,
The 23*rd February*, 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH FEBRUARY 1889.

PRICES-CURRENT (retail) of Food-grai

Number.	DISTRICTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, best sort. Present return.	Rice, best sort. Next preceding return.	Rice, best sort. Corresponding return of last year.	Kangni or Kakun, Italian millet. (*Setaria italica.*) Present return.	Kangni. Next preceding return.	Kangni. Corresponding return of last year.	Gram, Ghana, Chhola, Kadalay or Sunaga. (*Cicer arietinum.*) Present return.	Gram. Next preceding return.	Gram. Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan .	12 0	12 4	12 8	No sale.	37 8	...	15 0	15 12	18 12	..	...	...	15 0	16 0	20 0
2	Bankoora ..	12 8	12 4	13 8	15 0	14 8	18 0	17 8	17 8	19 8	..	...	...	14 8	14 8	16 0
3	Beerbhoom ...	11 0	11 0	13 8	...	..	...	13 0	13 0	15 12		..	...	14 4	15 0	20 0
4	Midnapore ...	10 0	13 5	15 0	54 0	40 0	...	15 0	15 0	22 0		...	..	13 8 / 14 4	14 0	19 0
5	Hooghly .	13 0	13 0	14 0	...	...	...	10 0	10 0	1 0	...	..	.	13 0	13 0	19 0
	Howrah ..	Not available.			..	..	...	12 0	12 0	14 0	...	.	...	16 0	15 8	20 0
	Central Districts.															
	Calcutta ...	12 6	12 9	13 0	14 14	15 11	23 3	9 7	9 10	10 2 •	17 8	10 10	12 4	11 10	14 15	18 13
6	24-Pergunnahs	13 4	12 8	16 0	16 0	14 0	22 8	8 0	8 0	8 0	13 4	12 8	13 5	16 0	15 0	21 4
7	Nuddea ..	14 0	13 14	16 0	17 12	22 14	22 0	13 5	12 5	14 8	...	..	...	16 0	16 0	22 14
8	Khoolna .	...	.	...		.		16 0	14 4	18 0	..	..	...	12 12	16 0	16 0
9	Jessore ...	12 0	12 0	13 4	.	...		14 0	14 0	18 0	..	..	...	14 8	15 0	20 0
10	Moorshedabad	13 5	13 5	13 5	..		..	13 5	13 5	16 0	..	..	...	16 0	16 0	23 0
11	Dinagepore	12 0	12 0	13 8	10 0	12 0	21 0	13 8	14 6	19 5	..	...	...	11 1	11 0	15 12
12	Rajshahye .	13 8	12 0	16 8	26 4	26 4	45 0	14 4	13 8	16 8	...	...	...	14 4	15 0	19 8
13	Rungpore .	12 4	12 4	13 4	.		...	10 8	10 8	13 4	..	.	...	10 0	10 0	21 0
14	Bogra ...	9 15	7 14	17 4	..	..	..	13 8	12 0	15 (	...	...	...	11 4	9 12	12 0
15	Pubna ..	15 12	16 8	18 0	.			7 8	7 12	8 (	...	...	...	13 8	15 0	24 0
16	Darjeeling ..	10 0	10 0	10 0	6 0	10 0	11 0	6	5 0	5 (	...	..	...	11 0	10 0	11 0
17	Julpigoree ..	10 0	10 0	13 0	16 0	16 0	20 0	8 0	8 0	13	...	.	...	11 8	11 0	18 0
	Eastern Districts.															
18	Dacca ...	15 8	15 8	16 0	20 0	20 0	26 0	15 0	16 0	19	...	...	...	13 0	13 0	18 0
19	Furreedpore ...	16 0	18 0	18 0	20 0	18 0	40 0	9 0	8 0	16	...	...	...	16 0	16 0	16 0
20	Backergunge ...	..	...	..	...	...	...	13 8	13 5	15	..	...	...	12 13	12 13	13 0
21	Mymensingh ...	10 0	9 0	11 0	...	..	...	13 0	12 0	12		...	...	12 4	12 8	13 4

* The falling of. in the price is owing to the appearance of new

A In sub-divisions retail prices of salt per rupee are :—Guma and Raneegunge 10 seers

B At Rampore Haut retail price of salt 9½ seers per rupee

C In sub divisions retail prices of salt per rupee are : Ghatal 10⅔ seers, Tumlook 8

D At Jehanabad retail price of salt 10 seers per rupee

D I In sub divisions retail prices of salt per rupee are :—Barasut and Bussirhat 9
Barrackpore 9⅞ seers, and Dum Dum 10 seers

E In sub-divisions retail prices of salt per rupee are :—Kooshtea, Chooadanga, and Ranaghat 10 seers, and Meherpore 10½ seers.

F At Bagirhat retail price of salt 8 seers per rupee.

G In sub-divisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, and Bongong 10 seers.

H In sub-divisions retail prices of salt per rupee are :—Lalbagh 9½ seers, Kandi 10½ seers, and Jungipore 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th February 1889.

Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	**BENGAL.** *Western Districts.*
	No sale		20 0	20 0	23 0	107 0	107 0	120 0	(A) 10 7½	10 7½	11 2	3 11 0	3 11 0	3 8 0	Burdwan.
20 0	19 0	34 0	18 8	18 12	20 0	280 0	320 0	320 0	10 0	10 0	11 0	3 14 0	3 14 0	3 9 0	Bankoora.
...	...	...	12 0	20 0	15 0	..	160 0	160 0	(B) 10 0	10 0	10 0	3 13 0	3 13 0	3 8 0	Beerbhoom.
...	...	...	21 0	20 0	13 0	160 0	120 0	120 0	(C) 10 4	10 4	13 0	3 14 0	3 14 0	3 0 0	Midnapore.
...	...	...	13 0	13 0	13 0	120 0	120 0	120 0	(D) 9 0	9 0	10 8	4 6 0	4 6 0	...	Hooghly.
...	...	...	13 0	13 0	12 8	100 0	100 0	100 0	10 8	10 8	10 11	3 7 0	3 10 6	3 8 0	Howrah.
															Central Districts.
16 0	17 6	22 3	16 10	16 7	19 1	100 0	99 10	92 10	10 5	10 5	11 6	3 9 7	3 10 2	3 5 0	Calcutta.
...	..		18 0	18 0	21 4	100 0	100 0	100 0	(D1) 10 0	10 0	10 8	3 10 0	3 9 6	3 7 0	24 Pergunnahs.
...	...	...	20 0	20 0	24 10	...	...	...	(E) 9 2	9 2	9 2	3 14 0	3 14 0	3 14 0	Nuddea.
...	...	...	...	...	...	160 0	160 0	160 0	(F) 9 2½	9 4	9 0	4 0 0	4 0 0	3 12 0	Khoolna.
...	...	...	22 0*	17 0	32 0	160 0	160 0	100 0	(G) 9 2	9 2	9 4	4 0 0	4 0 0	3 12 0	Jessore.
...	...	...	22 0	20 0	23 0	200 0	200 0	200 0	(H) 10 0	10 8	10 0	..	3 12 0	...	Moorshedabad.
...	...	...	.	...	16 0	160 0	160 0	160 0	9 8	9 8	10 0	4 0 0	4 0 0	3 12 0	Dinagepore.
...	...	...	20 2	19 1	16 2	240 0	240 0	240 0	(I) 9 9	9 9	9 9	4 0 0	4 0 0	3 13 4	Rajshahye.
...	...	...	10 5	10 5	10 0	120 0	120 0	120 0	(J) 9 6	9 6	10 0	4 4 0	4 4 0	3 14 0	Rungpore.
...	...	...	...	...	...	86 0	90 0	90 0	8 4	9 0	8 1	...	4 2 8	4 5 4	Bogra.
...	...	...	27 8	23 8	27 0	200 0	200 0	200 0	(K) 9 9	9 9	10 0	3 15 0	3 15 0	...	Pubna.
18 0	20 0	26 0	...	...	8 0	120 0	120 0	120 0	(L) .	7 0	9 0	5 0 0	5 0 0	4 4 0	Darjeeling.
...	...	20 0	9 0	11 0	9 0	128 0	128 0	128 0	(M) 9 0	9 0	9 0	4 4 0	4 4 0	4 0 0	Julpigoree.
															Eastern Districts.
...	...	...	16 0	16 0	18 8	120 0	120 0	120 0	(N) 9 14	9 14	10 10	4 0 0	4 0 0	3 12 0	Dacca.
...	...	...	12 0	10 0	...	120 0	120 0	160 0	10 0	9 0	12 0	3 14 0	4 0 0	3 1 0	Furreedpore.
...	...	...	...	...	10 0	120 0	120 0	120 0	(O) 10 10	10 10	9 0	3 12 0	3 12 0	3 10 0	Backergunge.
...	...	...	20 0	16 0	No sale.	..	...	..	(P) 9 10	9 10	10 0	4 2 0	4 2 0	3 14 0	Mymensingh.

I In sub-divisions retail prices of salt per rupee are :—Nattore 9½ seers and Nowgong 8 seers 11 chittacks.
J In sub-divisions retail prices of salt per rupee are :—Gaibanda 7½ seers, Nilphamari 10 seers, and Kurigram 9 seers.
K At Serajgunge retail price of salt 10 seers per rupee.
L At Silliguri retail price of salt 8 seers per rupee.
M At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee.
N In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8½ seers, and Naraingunge 10 seers
O In sub-divisions retail prices of salt per rupee are :—Patuakhali 8 seers, Ferozepore 9 seers, and Bhola 8 seers
P In sub-divisions retail prices of salt per rupee are :—Kishoregunge, Sherepore and Netrokona 8 seers, Attea 10 seers, and Jamalpore 9½ seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	12 8	15 5	16 3	19 6	...	...	...
23	Noakholly ...	...	...	...	...	...	...	15 0	16 0	20 0	16 0	18 0	22 0	...	...	...
24	Tipperah ...	12 8	12 8	13 8	...	...	...	17 0	17 0	17 8	19 0	20 0	25 0	...	...	...
25	Chittagong Hill Tracts	...	...	...	...	...	...	11 $6\frac{3}{4}$	11 $6\frac{3}{4}$	14 8	13 $5\frac{1}{4}$	14 $8\frac{1}{4}$	16 0	...	...	...
	Hill Tipperah ...	6 0	6 0	8 0	...	...	...	9 0	10 0	16 0	18 0	19 0	26 0	...	...	...
	BEHAR.															
26	Patna ...	18 0	17 0	16 0	22 0	21 0	29 0	11 0	11 0	11 8	16 8	15 8	20 0	24 0	21 0	20 0
27	Gya ...	14 0	13 8	13 0	18 0	15 0	26 0	10 0	9 8	10 0	15 0	15 0	18 0	...	...	...
28	Shahabad ..	15 8	15 4	13 8	20 0	17 0	22 8	9 0	9 0	11 8	15 0	14 4	17 0	20 0	18 4	23 0
29	Durbhunga ..	16 0	12 0	14 8	18 0	16 8	30 0	10 8	11 0	15 8	15 8	14 0	20 12	...	...	...
30	Mozufferpore ..	12 0	12 0	12 0	...	...	30 0	9 0	9 0	12 0	12 8	13 0	19 0	...	...	...
31	Sarun ...	15 0	15 0	13 8	21 8	20 8	25 8	8 12	8 8	8 8	14 6	13 5	20 8	...	...	...
32	Chumparun .	13 0	12 0	13 0	18 0	19 0	30 0	9 0	9 0	13 0	13 0	13 0	21 0	...	...	...
33	Monghyr ...	15 0	16 3	15 12	...	...	27 4	13 2	14 0	13 14	16 8	17 1	18 4	...	...	...
34	Bhagulpore ..	15 2	15 2	13 14	17 0	17 10	25 4	15 14	14 13	16 6	15 12	16 13	20 3	..	...	...
35	Purneah ...	13 0	13 4	18 0	..	...	32 0	15 0	16 0	20 0	17 0	17 0	22 0	...	...	...
36	Maldah ..	13 0	13 0	18 0	...	...	...	12 0	13 0	13 0	16 0	16 0	22 0	...	...	...
37	Sonthal Perghs.	11 0	11 8	11 4	...	...	...	14 0	12 8	15 0	17 0	18 0	22 0	...	...	...
	ORISSA.															
38	Cuttack .	13 2	13 2	15 12	...	...	...	11 13	11 13	10 8	17 1	18 6	21 0	...	...	...
39	Pooree ..	13 2	13 2	14 7	...	...	...	11 13	13 2	15 12	17 1	18 6	23 10	...	...	...
40	Balasore ..	13 0	13 0	18 0	18 0	18 0	18 0	12 0	12 0	15 0	20 0	19 8	24 0	...	...	-
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 0	12 0	12 0	...	9 0	18 0	8 0	8 0	9 0	16 0	16 0	16 0	Not	procur-	able.
42	Lohardugga ..	13 0	10 8	12 0	Not available			13 0	13 0	16 8	14 8	16 8	21 0	...	...	...
43	Singbhoom ...	10 0	10 0	11 0	14 0	14 0	20 0	16 0	16 0	14 0	20 0	20 0	22 0	...	...	...
44	Manbhoom ...	13 5	10 14	12 0	...	30 0	34 0	14 3	14 0	14 0	21 8	21 0	22 0	...	...	...

Q At Cox's Bazar retail price of salt 8 seers per rupee.
Q1 At Panchgachia in Fenny sub-division retail price of salt 8 seers per rupee.
R At Nowada retail price of salt 8 seers per rupee.
S In sub-divisions retail prices of salt per rupee are :—Buxar $10\frac{1}{2}$ seers, Sasseram $10\frac{1}{2}$ seers, and Bhaboonh $9\frac{1}{2}$ seers.
T In sub-divisions retail prices of salt per rupee are :—Madhubani 10 seers and Tajpore $10\frac{1}{2}$ seers.
U In Hajipore and Sitamarhi sub-divisions retail price of salt 10 seers per rupee.

CALCUTTA,
The 25th February 1889.

f Bengal on the 15*th February* 1889—(concluded).

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*) Present return.	Bajra: Next preceding return.	Bajra: Corresponding return of last year.	Marua or Ragi. (*Eleusine Corocana.*) Present return.	Marua: Next preceding return.	Marua: Corresponding return of last year.		Firewood. Next preceding return.	Firewood: Corresponding return of last year.	Salt. Present return.	Salt: Next preceding return.	Salt: Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Wholesale Salt: Next preceding return.	Wholesale Salt: Corresponding return of last year.	DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	).	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
															Eastern Districts—concluded.
...	...	...	...	...	...	0	108 0	110 0	Q 9 8	9 4	9 0	4 0 0	3 14 0	3 13 0	Chittagong.
...	...	...	...	...	...		...	...	Q1 8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Noakholly.
...	.	...	...	...	...		...	...	8 0	8 0	10 8	4 6 0	4 6 0	3 12 0	Tipperah.
...	...	...	...	...	...	0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	..	...	...	.	...		...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah.
															BEHAR.
...	...	..	...	..	...	0	130 0	120 (	10 0	10 0	10 8	3 12 6	3 12 0	3 8 0	Patna.
.	..	..	.	...	...	0	200 0	140 0	R 8 12	8 12	10 0	4 2 9	4 2 9	......	Gya.
...	...	...	.	.	...	0	160 0	160 0	S 10 0	10 0	11 0	......	.. ..	....	Shahabad.
...	...	...	20 4	19 0	30 0	0	160 0	160 0	T 11 0	11 0	10 0	3 10 3	3 10 3	3 2 3	Durbhunga.
...	.	...	...	...	...	0	160 0	160 (	U 10 0	10 0	10 0	3 12 0	3 12 0	3 14 0	Mozufferpore
...	..	...	20 0	20 0	31 8	0	160 0	160 (	10 0	10 0	10 14	3 15 0	3 14 6	3 9 6	Sarun.
...	.	...	22 0	20 0	32 0	0	160 0	160 0	V 9 8	9 0	9 0	4 1 0	4 2 0	3 12 0	Chumparun.
...	10 0	.	22 1	...	...	0	147 0	126 (	W 9 8	9 8	11 0	1 0 0	4 0 0	3 5 0	Monghyr.
.	.	..	...		.	8	176 8	164 0	...	9 0	10 1	4 0 0	4 0 0	3 0 0	Bhagulpore.
.		..	...	...	40 0	0	200 0	120 0	X 9 0	9 0	9 0	4 5 0	4 5 0	1 0 (	Purneah.
.	.	...	.	...	...	(	120 0	120 0	10 0	10 0	10 0	..	.....	......	Maldah.
.		...	...	...	...	0	200 0	200 0	9 0	9 0	10 0	4 3 0	4 3 0	3 13 0	Sonthal Perghs.
															ORISSA.
.	...	.	...	...	...	0	80 0	80 (	11 0	11 0	9 12	3 12 0	3 12 0	4 0 0	Cuttack.
...	...	...	...	...	..	0	80 0	70 (	11 13	11 13	10 8	3 6 0	3 6 0	3 8 0	Pooree.
.	...	..	..	...	...	0	160 0	200 (	Y 8 8	9 12	9 0	4 4 0	3 13 6	4 1 0	Balasore.
															CHOTA NAGPORE
															South-West Frontier Agency
Not procurable.			22 0	20 0	27 0	0	320 0	320 (	8 0	8 0	8 0	4 4 0	4 8 0	4 4 0	Hazaribagh.
...	...	...	27 0	26 8	34 0	0	140 0	160 0	Z 8 8	8 8	9 12	4 8 0	4 8 0	4 2 0	Lohardugga.
...	...	...	...	...	...	0	200 0	210 (	8 0	7 0	9 0	5 0 0	5 8 0	4 8 0	Singbhoom.
.	...	...	..	...		0	200 0	240 0	Z1 9 0	9 0	9 2	4 2 6	4 3 6	3 12 0	Manbhoom

372*a*.

or rupee.
rupee are :—Begusérai 9½ seers and Jamui 9 seers.
ons retail price of salt 10 seers per rupee.
per rupee.
seers per rupee.
Z1 At Govindpore retail price of salt 8 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*wholesale*) of Food-[illegible]

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST S[illegible]	
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 15 0	2 14 10	2 13 7	2 7 0	2 5 2	1 7 10	3 15 4	3 11 5
2	Serajgunge ...	2 10 0	2 10 0	2 2 0	...	...	...	3 14 0	3 12 0
3	Dacca ...	2 8 0	2 8 0	2 6 0	2 0 0	2 0 0	1 8 0	2 10 0	2 7 0
4	Naraingunge	...	...	...	...	...	...	2 6 0	2 6 0
5	Chittagong ...	3 9 0	3 9 0	3 8 0			...	3 4 0	3 4 0
6	Patna ...	2 2 0	2 5 0	2 7 0	1 12 0	1 13 0	1 5 0	3 8 0	3 8 0
7	Balasore ...	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0
8	Pooree ...	...	...	...	...	...	...	...	...
9	Cuttack ...	3 0 0	3 0 0	2 5 0	...	...	...	3 0	3 4 6

CALCUTTA,
The 26th February 1889.

OF 40 SEERS.

Number.	MARTS.	MARUA OR RAGI. (*Eleusine Corocana.*)			KANGNI OR KAKUN. ITALIAN MILLET. (*Setaria italica.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta	...	...	3 4 0	2 0 0	2 2 6	3 0 0
2	Serajgunge	...	...	...	...	...	...
3	Dacca	...	...	...	...	...	...
4	Naraingunge	...	...	...	...	...	...
5	Chittagong	...	...	...	...	...	...
6	Patna	...	...	...	...	...	...
7	Balasore	...	.	...	2 8 0	2 9 6	1 4 6
8	Pooree	...	...	...	...	...	...
9	Cuttack	...	...	...	...	...	...

undermentioned Marts of Bengal on the 15*th February* 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 7 2	2 7 0	1 14 2	2 4 0	2 0 8	1 8 9	2 2 8	2 2 9	1 13 8	0 5 9	0 5 9	0 6 9	3 9 7	3 10 2	3 5 0	Calcutta.
3 7 0	3 6 0	2 8 0	...	...	...	...	...	...	...	...	...	3 12 0	3 11 0	3 5 0	Serajgunge.
3 0 0	3 0 0	2 3 0	...	...	...	2 8 0	2 8 0	2 0 0	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	3 12 0	Dacca.
3 0 0	3 0 0	...	...	...	...	3 2 0	3 2 0	...	0 10 0	0 10 0	...	3 12 0	3 12 0	...	Naraingunge.
3 8 0	3 4 0	3 8 0	...	...	...	...	...	...	0 5 0	0 5 8	0 5 0	4 0 0	3 14 0	3 13 0	Chittagong.
2 0 0	2 1 0	1 14 6	1 12 6	1 13 0	1 7 0	1 10 0	1 10 0	1 14 6	0 5 0	0 5 0	0 5 0	3 12 6	3 12 0	3 8 0	Patna.
3 0 0	3 0 0	2 4 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 0	4 4 0	3 13 6	4 1 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 8 0	Pooree.
2 0 0	2 0 0	1 11 0	...	...	...	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	4 0 0	Cuttack.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Benga

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	30·007	30·020	—	Northerly	233	87·7	21st Feb.	62·3*	21st Feb.	84·8*	66·3*	75·6*	—	71·
		Gopalpore ...	29·986	30·036	+·001	NNW	336	84·7	18th „	69·9	21st & 22nd Feb.	83·1	72·7	77·9	+2·8	75·
		False Point ..	30·006	30·028	—·022	NW	209	84 9	21st „	60·5	22nd „	83·3	62·9	73·1	—1·0	70·
	Cuttack	Cuttack ..	29·955	30 042	+·011	Calm	40	93·4	17th „	60·8	21st „	90·3	65·9	78·1	+0·4	70·1
	Balasore	Balasore ..	29 983	30·044	+·008	NW	101·8	87·4	16th & 17th Feb.	59·6	16th & 21st Feb	83 9	61·7	72 8	+1·2	67·
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	30·010	30·037	—·014	NNE	206	85·?	16th „	60·8	17th „	81·2	63 2	72 2	—1·4	67·
	Midnapore ...	Midnapore .	29 888	30·045	+·007	N	64·3	87·3	18th „	59 2	21st & 22nd Feb.	82 6	61·0	71 8	+0·8	67·
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta .	30·019	30·041	+·010	Calm	38	83 0	16th „	56·8	22nd „	78 8	59·5	69·2	—2 5	64·
	Burdwan	Burdwan	29·930	30 035	—·006	Calm	32 7	86·8	18th „	56·8	22nd „	82·0	59 8	70·9	+0·1	65 1
	Bankoora	Bankoora ..	29 713	30·020	—	Westerly	87	86·6	17th & 18th Feb.	57·4	22nd „	82 5	60 4	71·5	—	64·
	Beerbhoom ... ... / West Burdwan	Raneegunge	29·696	30 021	+·007	NW	75 2	85 8	18th „	58·7	16th & 21st Feb	82·6	60·9	71·7	+2·1	65·2
	Moorshedabad	Berhampore	29 965	30·036	+·011	Northerly	60·6	84 8	18th „	56·2	22nd „	80 3	59·1	69·7	—0·4	63·4
	Nuddea	Krishnaghur	29·994	30 063	+·033	Westerly	78·2	85·3	18th „	53 9	17th „	80 7	57 3	69 0	+0·6	64 5
	Jessore ... ... / Khoolna	Jessore ..	30·003	30·038	+·010	Calm	44·4	87·2	18th & 19th Feb.	55 5	17th „	82 8	58 4	70 3	+0·1	64·8
East Bengal.	Chittagong	Chittagong .	29·933	30·027	+·001	Calm	60 1	89 6	18th „	57 6	22nd „	82 7	60 1	71 4	+0·8	64 4
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ..	30·017	30 030	+·023	Calm	42·6	85 3	18th Feb.	56 6	22nd Feb.	82·3	59·4	70 9	+0·8	66 4
	Noakholly	Noakholly ..	29 994	30 039	—·011	Calm	194 1?	85·0	18th „	54·5	16th & 22nd Feb	81·1	57·0	69·1	+0 8	67 3
	Furreedpore	Furreedpore	29 993	30·035	+ 011	Calm	46	84 3	19th „	53 8	22nd „	78 8	57 1	68 0	+0 8	63 8
	Dacca .. .	Dacca .	29·995	30 019	+ 003	Easterly	49 9	87·1	18th „	57 3	22nd „	82·7	59·9	71 3	+0·5	66·1
	Commillah ..	Commillah	29 987	30·024	+·003	SSE	57·9	88 4	18th „	56 5	16th „	84 7	57 9	71 3	+2·8	64·1
	Mymensingh	Mymensingh	29·9 8	30 018	— 002	Variable	57·8	85 3	19th „	54 7	22nd „	81 0	57 7	69 4	+3 1	65·8
North Bengal.	Bogra	Bogra	29 914	30 011	+·002	Calm	47 5	84 5	18th „	54 9	21st „	81 0	58 7	69 8	+3 9	64 9
	Pubna	Serajgunge	29 967	30·016	— 002	North-Easterly	33 2	86·0	18th „	52 5	21st „	81 4	56 5	69 0	+3 5	64 3
	Rajshahye ...	Rampore Beauleah.	29 958	30 031	+ 027	Northerly	73 5	83 8	18th „	54 7	21st „	79 2	57 8	68 5	+3 3	64 5
	Maldah .	Maldah	29 956	30 010	—	NW	70 1	83 3	18th „	54 7	16th „	82 8*	56 3*	69 6*	—	67 6
	Dinagepore	Dinagepore	29·965	30 030	+·027	Westerly	64	83 1	18th „	55 2	22nd „	79 6	58·5	69 1	+1·1	63 8
	Rungpore	Rungpore	29 899	30·031	— 017	NNE	51	85·6	18th „	52 7	21st „	79 6	57·1	68 4	+4 2	63 8
	Julpigoree ... ... / Cooch Behar . .	Julpigoree	29·734	30 038	— 004	E	32 7	71 ?	17th to 20th Feb	49 9	22nd „	73 9?	53·5	63·7	—0·2?	61·3
	Darjeeling Hill Tracts .	Darjeeling	22 079	—	+·006	Easterly	99 5	52·7	17th „	31 5	20th „	48 6	36 2	42 4	+0·8	42 1
North Behar.	Purneah .. / North Bhaugulpore ..	Purneah	29·592	30 026	0	South-Westerly	60·8	84 2	19th „	54 5	21st „	80·3	57·0	68 7	+2·3	61·0
	Mozufferpore ..	Mozufferpore	Observations suspended.													
	Durbhunga .. .	Durbhunga	29 860	30·037	+ 016	WSW	88	78 2	18th Feb.	57 9	21st Feb.	74 9	59·9	67 4	+2·2	63·0
	Chumparun .	Motihari	Complete observations not to hand													
	Sarun .	Chupra	29·825	30·030	+ 008	South-Westerly	31 8	65 0?	16th, 18th & 19th Feb.	54 0	20th „	63 1?	55 4	59 3?	—5 5?	62·9
South Behar.	Shahabad	Dehree	29 654	30 031	—·006	Westerly	174 5	84 8	17th „	53 5	16th „	78 2	57·2	67 7	+1 5	61·3
		Buxar	29 779	30·036	— 006	NW	113·2	83 4	17th „	53 9	16th „	76 5	56·0	66·3	+0 9	61 2
		Arrah	29·813	30·022	+·011	Variable	23·1	81 5	16th & 17th Feb.	53 4	16th „	77 6	55·7	66 7	+2 0	59·8
	Gya ..	Gya	29 ·50	30·051	+ 003	Southerly	72·9	84 6	17th „	56 2	20th „	78·4	58·7	68 5	—0·7	62 3
	Patna .	Bankipore	29 836	30·030	—·013	Easterly	66 9	81 1	18th „	54 4	16th „	77 5	56·7	67·1	+2·1	61·9
	South Bhagulpore / Monghyr	Bhagulpore .	29·851	30·021	+·006	Westerly	72	82 3	18th „	55 0	16th „	78·0	57 7	67·9	+3·1	63 3
	Sonthal Pergunnahs	Dooomka .	29 521	30·046	—·003	Calm	69 4	82 8	18th „	55·1	16th „	79 2	58·3	68 8	+1·2	61·5
Chota Nagpore.	Hazaribagh	Hazaribagh	27 966	30 051	—·001	SSE	175·9	83·1	17th „	51 0	21st „	76 9	55·2	66 1	—0·3	62·0
	Lohardugga ... / Manbhoom ...	Ranchee ..	27 811	30·039	—·015	Calm & Westerly	129·2	84·7	17th „	51·4	21st „	76 7	54 0	65 4	—0·4	60·6
	Singhbhoom ..	Chyebassa ..	29·251	30·016	+·020	Calm	28·4	90·9	18th „	56·6	21st „	85·3	60·2	72·8	+2·4	66·8

* Mean of six days.

Explanation.—Summary. The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The humidity ... in ... express ... percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the ... determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district ... returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 22nd of February 1889.

DISTRICT OBSERVATIONS.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall: Of week: Mean for district.	Of week: Normal mean.	Since 1st of month: Mean for district.	Since 1st of month: Normal mean.	Since 1st of month: Variation.	Since 15th May 1888: Mean for district.	Since 15th May 1888: Normal mean.	Since 15th May 1888: Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
79	1·1	0·15	0·63	0·27	0 63	0 80	−0·17	44·75	56·45	−11·70	1·3	0·4	Pooree ...	Pooree	Orissa.
67	1·1	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore ...		
87	1·7	2 04	—	—	—	—	—	—	—	—	—	—	False Point ..		
77	1·9	0·26	0·95	0·16	0·95	0·72	+0·23	52 82	52·73	+0·09	1·3	0 4	Cuttack ...	Cuttack	
80	0·3	0·89	1·27	0·15	1·30	0·80	+0·50	54·25	54·14	+0·11	1·0	0·4	Balasore ..	Balasore	
92	3·0	1·51	1·52	0·16	1·70	1·11	+0·59	56 69	63·50	−6·81	2 0	0·4	Saugor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
[illegible]	1·1	3·30	2·34	0·19	[illegible]	[illegible]	+2·26	65·26	52 36	+1[illegible]·90	1 7	0 5	Midnapore .	Midnapore	
90	1·7	1·41	1·26	0·24	2 01	1·10	+0·91	64·50	52·76	+11·74	1·9	0·5	Calcutta ...	24-Pergunnahs ... .. Howrah ... .. Hooghly	
72	2·6	0·36	0·30	0 21	0·34	0·88	−0 54	56·52	47 58	+8 94	1·5	0 4	Burdwan ..	Burdwan	
78	2·6	0·33	0·89	0·12	1·19	0·55	+0 64	53·40	52 81	+0·59	2·0	0·3	Bankoora ..	Bankoora	
77	2·9	0·16	0·40	0·28	0·84	0·91	−0·07	58 92	52 51	+6·41	1·9	0 5	Raneegunge ..	Beerbhoom ... ... West Burdwan ..	
89	2·7	0·35	0 [illegible]	0·20	0 92	0·74	+0 18	49 70	51·29	−1·59	2 0	0 4	Berhampore .	Moorshedabad	
82	3·3	0·11	0 20	0·25	0·67	0 92	−0·25	55 41	50 06	+5·35	1·0	0 4	Krishnaghur ..	Nuddea	
87	2·6	0·70	0 45	0·23	0·68	0 94	−0·26	45·12	54 18	−9·06	1 1	0 6	Jessore .	Jessore .. ... Khoolna	
87	3·0	0 40	0·27	0·11	0 70	0 63	+0·07	126·47	114·44	+12·03	1 0	0·3	Chittagong .	Chittagong	East Bengal.
				0·15		0·74			82 40			0·4	Demagiri	Chittagong Hill Tracts	
83	2·4	0·85	0 99	0 14	1·42	0 89	+0 53	73 52	77·92	−4 40	1 8	0 3	Burrisal .	Backergunge ...	
85	3·0	0·47	0 41	0·10	1·50	0 90	+0 60	107 26	108·08	−0·82	1·0	0 3	Noakholly	Noakholly	
87	1·1	0·07	0 41	0 34	0 50	0 99	−0 49	48 42	56 73	−8 31	0 3	0 5	Furreedpore	Furreedpore	
83	4·3	0 02	0·16	0 25	0 61	1·02	−0·41	56 73	60·84	−4·11	0·8	0·5	Dacca .	Dacca	
90	1·6	0·55	0 41	0 19	0·95	0 89	+0 06	63 03	70 22	−7·19	0 8	0 5	Commillah ...	Tipperah	
87	3·0	Not measurable	0 18	0 20	0 23	0 85	0 62	67·47	68 18	−0 71	0 4	0 5	Mymensingh ..	Mymensingh	
84	2·1	0 28	0 58	0 30	0 75	0 77	−0 02	46·39	58 00	−11 61	1·2	0 6	Bogra	Bogra	North Bengal.
80	1·7	0·03	0 09	0·35	0 42	0 98	−0 56	42 47	54 36	−11 89	1 5	0 6	Serajgunge	Pubna	
80	1·1	0 53	0 36	0 27	0 68	0 83	−0 15	47 91	54 71	−6 80	1 5	0·5	Rampore Beauleah	Rajshahye	
74	1 9	0 05	0·10	0·22	0 50	0 58	−0 08	43 83	54 81	−10 98	1·5	0 5	Maldah	Maldah	
84	1·7	0 09	0·42	0 15	0 95	0·44	+0 55	49 50	57·86	−8 36	1 4	0·4	Dinagepore ...	Dinagepore	
87	2·6	0 26	0 15	0 15	0 82	0·41	+0 41	59·23	74·25	−15·02	1 3	0 4	Rungpore .	Rungpore	
80	1·3	0·81	1·47	0 11	1 79	0·29	+1 50	89·95	111·52	−21·57	1 2	0 5	Julpigoree ..	Julpigoree ... .. Cooch Behar	
88	4·7	2·16	1·54	0 19	1 92	0·49	+1 43	102·52	121·87	−19 35	3 0	0 5	Darjeeling	Darjeeling Hill Tracts	
90	3·3	0·19		0·11		0 48			59 15			0 4	Purneah	Purneah . North Bhagulpore	North Behar.
			0·94	0 05	1 31	0·37	+0 94	43 80	43·94	−0 14	2·7	0 3	Mozufferpore ..	Mozufferpore	
81	2·7	0·51	0·98	0 07	1 67	0·59	+0 65	43 12	45 11	−1·99	2 0	0 3	Durbhunga ..	Durbhunga ...	
			1 07	0·09	1·61	0 38	+1 23	44 60	47 19	−2 59	2·5	0 3	Motihari .	Chumparun	
84	3·7	0·87	0·95	0·09	1 21	0·38	+0 83	41 30	43 36	−2 06	2·3	0 3	Chupra .	Sarun	
81	1·1	0·71											Dehree ...		South Behar.
78	4·1	0·74	0·67	0·06	0·93	0·36	+0 57	43·73	40 42	+3 31	2·0	0 2	Buxar ...	Shahabad	
86	2·9	0·64											Arrah .		
79	2·3	2·80	1·43	0 12	1·64	0·42	+1·22	52 45	42 07	+10·38	3·0	0 3	Gya .	Gya	
80	3·0	1·24	1·05	0·10	2 04	0·40	+1 64	51 04	41 74	+9 30	3 0	0·3	Bankipore ..	Patna ..	
85	2·6	0·62	1·11	0·20	1 56	0 52	+1·04	52 50	43 69	+8·81	2·4	0 4	Bhagulpore ..	South Bhagulpore ... Monghyr	
80	1·4	0 84	0·49	0·11	0·76	0·44	+0 32	55 22	51 24	+3 98	2·2	0·3	Doomka ..	Sonthal Pergunnahs .	
70	0 9	0·72	0·55	0·09	0 81	0 50	+0 31	57 03	50 97	+6 06	2 0	0·3	Hazaribagh ..	Hazaribagh . ..	Chota Nagpore.
68	1·6	0·75		0·07		0 56			49 06			0 3	Ranchi ...	Lohardugga	
			0·40	0·16	0 58	0 87	−0·29	47 81	47·82	−0·01	2·5	0·4		Manbhoom .. .	
60	2·4	0·44	0·33	0·22	0 33	0 81	−0 48	40 98	52 37	−11 39	1·0	0 5	Chybassa .	Singhbhoom .	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means [illegible] years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional [illegible]

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of February 1889.

Meteorological division.	t.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 16th February 1889.	Sunday, 17th February.	Monday, 18th February.	Tuesday, 19th February.	Wednesday, 20th February.	Thursday, 21st February.	Friday, 22nd February.	Number of rainy days.	Rainfall of week.				
Orissa	ooree ..	Pooree ...	...	...	...	...	0·17	...	...	1	0·17	0·17	0·83	41·24	52·11
		Khurdah ...	...	...	...	0·10	...	...	...	1	0·10	0·10	0·59	44·48	57·04
		Banpur ...	...	...	...	0·22	...	...	...	1	0·22	0·22	1·04	37·00	51·48
		False Point ...	...	...	...	0·64	1·40	...	...	2	2·04	2·04	0·73	56·28	65·51
		Gop ...											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore											0·56		47·60
		Banki ..	...	...	...	1·22	...	...	...	1	1·22	1·22	0·61	45·03	51·38
		Cuttack ...	...	...	...	0·33	...	...	...	1	0·33	0·33	0·70	53·01	57·04
		Kendrapara ...	...	...	...	0·38	1·00	...	...	2	1·38	1·38	0·71	46·59	54·10
		Jajpore ...	...	...	...	0·85	...	...	...	1	0·85	0·85	1·02	62·30	55·04
		Dharmsala .											?		?
		Salipore ..											?		?
	Balasore ..	Chandbali ...	...	...	...	...	1·80	...	...	1	1·80	1·80	0·95	52·85	53·22
		Bhuddruck ...	...	...	...	0·38	...	...	...	1	0·38	0·38	0·97	49·39	52·67
		Sorah ...	...	...	...	1·60	...	...	...	1	1·60	1·60	0·58	51·22	51·62
		Balasore ..											1·13		58·90
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·64	55·85	53·50
		Baripodah ...	...	...	...	1·70	...	...	...	1	1·70	1·88	0·56	56·06	54·34
South-West Bengal.	Midnapore ...	Contai .	...	...	...	1·17	0·45	...	...	2	1·62	1·70	1·02	52·40	62·28
		Saugor Island	...	...	...	1·08	0·43	...	...	2	1·51	1·51	1·03	53·60	68·17
		Tumlook ..	...	...	...	0·70	1·10	...	...	2	1·80	2·40	1·00	67·20	52·20
		Midnapore ...	...	...	...	4·01		...	...	1	4·01	5·51	0·78	70·22	49·66
		Ghattal ...	...	...	...	0·99	0·21	...	...	2	1·20	1·27	0·62	58·36	55·16
		Kukrahaty ...	...	...	...	1·13	0·58	...	...	2	1·71	2·14	?	67·51	?
		Heria .	...	...	...	1·17	0·15	...	...	2	1·32	1·67	?	53·81	?
		Bhagwanpore	...	...	...	4·00	0·13	...	...	2	4·13	4·94	?	56·03	?
		Garbeta ...	...	...	...	0·20	1·00	...	...	2	1·20	1·20	?	65·89	?
	24-Pergunnahs	Diamond Harbour ..	...	...	...	0·93	0·42	...	...	2	1·35	1·79	1·25	58·97	59·80
		Canning Town	...	...	...	0·30	0·80	...	...	2	1·10	1·24	?	57·30	?
		Alipore Jail .	...	...	...	1·07	0·47	...	...	2	1·54	2·60	1·31	64·82	56·86
		Barrackpore ..	...	...	...	0·42	0·55	...	...	2	0·97	1·52	1·21	63·18	49·43
		Dum-Dum ...	...	...	...	0·73	0·98	...	...	2	1·71	2·38	0·95	66·56	52·65
		Baraset ..	...	...	...	0·70	0·42	...	...	2	1·12	2·73	1·18	67·48	50·45
		Buseerhat ...	...	...	...	0·26	0·53	...	...	2	0·79	1·46	0·91	53·04	55·35
	Howrah ..	Howrah .	...	...	...	1·06	0·53	...	...	2	1·59	2·63	0·95	68·33	53·06
		Mohesreka (*Ooloberiah.*)	...	...	...	1·59	0·82	...	...	2	2·41	3·53	1·04	62·73	53·02
	Hooghly ..	Serampore ...	...	...	...	0·47	...	...	...	1	0·47	1·07	1·16	68·02	51·27
		Hooghly ...	...	...	...	0·60	0·25	...	...	2	0·85	1·00	1·13	67·91	49·25
		Jehanabad ...	...	...	...	0·60	0·52	...	...	2	1·12	1·18	1·18	62·98	56·22
	Burdwan ...	Culna ...	...	...	...	...	0·25	...	...	1	0·25	0·37	0·83	61·37	45·00
		Burdwan ...	...	...	...	0·08	0·28	...	...	2	0·36	0·36	0·77	47·21	46·58
		Cutwa ...											1·06		48·81
		Raneegunge ...	...	...	...	0·11	0·05	...	...	2	0·16	0·41	1·09	58·84	49·59
		Mankur ...	...	...	...	...	0·35	...	...	1	0·35	1·24	?	44·61	?
	Bankoora ...	Bankoora ...	...	...	...	0·08	0·24	...	...	2	0·32	0·39	0·72	49·49	52·02
		Bishenpore ...	...	...	...	0·57	0·85	...	...	2	1·42	1·57	0·64	55·65	52·12
		Maliara ...	...	...	...	0·12	0·31	...	...	2	0·43	1·08	0·39	51·71	52·25
		Khatra ...	...	...	...	0·42	0·95	...	...	2	1·37	1·67	0·42	56·69	54·60
		Indas ...	...	...	...	0·12	0·42	...	...	2	0·54	0·54	?	41·94	?
		Kotalpore ...	...	...	...	0·73	...	...	...	1	0·73	0·83	?	49·56	?
		Anda ...	...	0·10	0·05	0·30	...	...	...	3	0·45	0·95	?	39·01	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	1·33	?	58·03	?
		Raipore ..	...	...	...	0·45	...	...	...	1	0·45	0·73	?	55·90	?
		Sonamukhi ..	...	...	...	0·05	0·21	...	...	2	0·26	0·47	?	46·89	?
	Beerbhoom ...	Bh. Soory ...	...	...	...	0·08	0·27	...	...	2	0·35	1·11	0·87	55·54	54·56
		Hetampore ..	...	...	...	0·11	...	...	...	1	0·11	0·87	0·91	49·41	55·19
		Rampore Haut	...	...	...	0·69	0·27	...	...	2	0·96	0·96	0·76	71·88	52·29
		Bolpore ...											?		?
		Murarai ...											?		?
	Nuddea ...	Ranaghat ...	...	...	...	0·29	0·15	...	...	2	0·44	0·44	0·83	64·07	47·84
		Kishnaghur ...	...	...	...	0·14	...	...	...	1	0·14	0·51	0·89	69·93	46·65
		Chooadanga ...	...	...	...	...	0·20	...	...	1	0·20	0·80	1·01	53·97	52·04
		Meherpore ...	...	...	...	...	...	...	...	Nil	Nil	0·87	0·94	50·92	48·44
		Kooshtea ..	...	...	...	...	0·23	...	...	1	0·23	0·76	0·95	37·56	55·34
	Khoolna ..	Sâtkhira ..	...	...	...	0·20	0·40	...	...	2	0·60	0·93	0·83	40·03	55·88
		Bagirhat ...	...	...	...	...	0·68	...	...	1	0·68	0·78	1·14	51·44	62·65
		Khoolna ...	...	...	...	...	0·28	...	...	1	0·28	0·46	0·91	49·20	55·81
	Jessore ...	Narail ..	...	...	...	...	0·71	...	...	1	0·71	1·00	0·94	31·72	47·10
		Jessore ...	...	...	...	...	0·15	...	...	1	0·15	0·30	0·92	57·30	55·28
		Jhenidah ...	...	...	...	...	0·15	...	...	1	0·15	0·65	0·96	36·94	54·38
		Magoorah ...	...	...	...	...	0·13	...	...	1	0·13	0·38	0·86	43·93	49·20
		Bongong ...	...	...	...	...	0·90	...	...	1	0·90	0·90	0·97	50·35	52·74
	Moorshedabad	Kandi ...	...	...	...	0·04	0·30	...	...	2	0·34	0·89	0·82	52·56	50·91
		Berhampore ...	...	...	...	0·04	0·31	...	...	2	0·35	0·90	0·89	43·33	52·20
		Lalbagh ...	...	...	...	0·10	0·11	...	...	2	0·21	0·81	0·66	48·92	51·59
		Azimgunge ...	...	...	...	0·25	0·27	...	...	2	0·52	0·82	0·72	?	51·88
		Jungipore ...	...	...	...	0·53	0·27	...	...	2	0·80	1·00	0·68	49·45	49·78
		Lalgola ...	...	...	...	0·95	0·09	...	...	2	1·04	1·14	0·63	54·23	51·88
		Jiagunge ...	...	...	...	0·25	0·26	...	...	2	0·51	0·81	?	49·26	?
		Akhrigunj ...	...	...	...	0·76	0·33	...	...	2	1·09		?		?
		Patkabari ...											?		?
East Bengal	Chittagong ...	Cox's Bazar ...	...	...	...	...	...	0·23	...	1	0·23	0·50	0·48	146·94	134·27
		Chittagong ...	...	...	...	...	0·31	...	...	1	0·31	0·90	0·77	105·98	94·78
		Kutubdia ...											?		?
		Satkanya ...											?		?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	0·97	...	...	1	0·97	1·54	0·94	76·39	84·84
		Ruma ...											0·52		79·12
	Backergunge	Patuakhally ..	...	...	...	0·50	1·50	...	...	2	2·00	2·67	0·96	88·27	88·80
		Perozepore ...	...	...	...	...	0·35	...	...	1	0·35	0·74	1·12	62·31	71·17
		Burrisal ...	...	...	...	0·41	0·40	...	...	2	0·81	1·45	0·83	67·44	68·59
		Bhola ...	...	...	...	0·30	0·50	...	...	2	0·80	0·80	0·64	76·03	82·20

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of February 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 16th February 1889.	Sunday, 17th February.	Monday, 18th February.	Tuesday, 19th February.	Wednesday, 20th February.	Thursday, 21st February.	Friday, 22nd February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi* ...	......	......	......	......	0·55	......	......	1	0·55	1·55	?	50·83	?
		Bauphal ...	......	......	......	0·13	1·00	......	......	2	1·13	1·13	?	99·51	?
	Noakholly	Noakholly ...	......	......	......	......	0·47	......	......	1	0·47	1·55	0·68	108·54	108·49
		Fenny ...	......	......	......	......	0·35	......	......	1	0·35	1·45	1·09	105·98	107·62
		Harishpore ...	......	......	......	......	0·52	......	......	1	0·52*		?		?
		Ramganj ...	......	......	......	......	0·76	......	......	1	0·76	1·54	?	89·94	?
	Furreedpore	Madaripore ...	......	......	......	......	0·66	......	......	1	0·66	0·66	0·77	46·77	56·61
		Furreedpore...	......	......	......	......	......	......	......	Nil	Nil	0·02	1·06	53·33	57·32
		Goalundo ...	......	......	......	......	......	......	......	Nil	Nil	0·22	1·13	45·17	54·02
	Dacca ...	Munshigunge	......	......	......	......	0·08	......	......	1	0·08	0·19	1·08	61·68	71·22
		Dacca ...	......	......	......	......	......	......	......	Nil	Nil	0·99	0·90	53·69	59·27
		Naraingunge	......	......	......	......	0·50	......	......	1	0·50	1·04	1·05	63·93	60·66
		Manickgunge	......	......	......	0·04	......	......	......	1	0·04	0·20	1·00	47·61	51·03
		Joydebpore ...	......	......	......	......	......	......	......	Nil	Nil	0·24	?	59·49	?
	Hill Tipperah	Agartola ...											0·94		62·61
	Tipperah	Comilla ...	......	......	......	......	1·13	......	......	1	1·13	1·26	0·79	70·17	76·74
		Chandpore ...	......	......	......	......	0·44	......	......	1	0·44	1·04	0·71	58·27	78·62
		Brahmunberia	......	......	......	......	0·06	......	......	1	0·06	0·97	1·09	70·13	62·35
		Ramchandrapore.	......	......	......	......	......	......	......	Nil	Nil	0·63	?	60·81	?
		Nasirnagar ...	......	......	......	......	......	......	......	Nil	Nil	0·40	?	58·99	?
		Daudkandi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·18	?
		Kasba ...	......	......	......	......	......	......	......	Nil	Nil	0·05	?	56·65	?
		Laksham ...	......	......	......	......	0·30	......	......	1	0·30	2·29	?	80·31	?
	Mymensingh .	Kishoregunge	......	......	......	......	......	......	......	Nil	Nil	0·21	0·80	83·53	70·89
		Atia (*Tangail*)	......	......	......	......	......	......	......	Nil	Nil	0·24	1·02	89·12	56·44
		Mymensingh	......	......	......	......	......	......	......	Nil	Nil	0·21	0·87	70·02	74·76
		Jamalpore ...	......	......	......	0·33	0·05	......	......	2	0·38	0·49	1·03	65·98	66·23
		Netrokona ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	77·02	72·26
		Subornakhally	......	......	......	......	......	......	......	Nil	Nil	0·06	?	62·14	?
		Durgapore	......	......	......	......	......	......	......	Nil	Nil	0·10	?	110·01	?
		Sherepore town	......	......	......	0·18	0·10	......	......	2	0·28	0·45	?	?	?
		Dewanganj ...											?		?
NORTH BENGAL.	Pubna	Pubna ...	......	......	......	0·04	0·11	......	......	2	0·15	0·64	0·93	40·83	54·77
		Serajgunge ...	......	......	......	0·03	......	......	......	1	0·03	0·20	1·03	41·09	53·83
	Bogra	Sherpore ...	......	......	......	0·77	......	......	......	1	0·77	1·09	0·89	43·68	58·78
		Nowkhilla ...	......	......	......	0·80	0·15	......	......	2	0·95	1·15	0·79	51·82	55·51
		Bogra ...	......	......	......	0·18	0·12	......	......	2	0·30	0·44	0·84	43·31	61·42
		Panchbibi ...	......	......	......	0·30	......	......	......	1	0·30	0·55	0·62	46·99	56·29
	Rajshahye	Beauleah ...	......	......	......	0·21	0·31	......	......	2	0·52	1·01	0·77	33·86	53·67
		Nattore ...	......	......	......	0·20	......	......	......	1	0·20	0·35	0·83	61·98	55·81
		Naogaon ..	......	......	......	0·37	......	......	......	1	0·37	0·79	?	39·57	?
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	0·40	?	40·05	?
		Manda ...	......	......	......	......	......	......	......	Nil	Nil	0·20	?	32·84	?
	Maldah ..	Maldah ..	......	......	......	0·05	......	......	......	1	0·05	0·30	0·51	51·85	52·22
		Chanchal ...	......	......	......	0·13	0·02	......	......	2	0·15	0·69	0·64	35·76	57·34
		Gajol ...	......	......	0·33	......	......	......	......	1	0·33	0·95	?	40·53	?
		Sibganj ...	......	......	......	0·21	0·06	......	......	2	0·27	0·56	?	48·71	?
	Dinagepore ..	Mohadebpore	......	......	0·37	......	......	......	......	1	0·37	0·18	0·66	41·20	59·00
		Churamon ..	......	......	......	0·19	0·23	......	......	2	0·42	1·72	0·56	50·79	53·55
		Raigunge ..	......	......	......	0·14	0·87	......	......	2	1·01	1·55	0·48	54·54	59·77
		Dinagepore ..	......	......	......	0·11	......	......	......	1	0·11	0·57	0·50	59·79	64·48
		Baloorghat .	......	......	......	0·17	......	......	......	1	0·17	0·51	0·22	42·13	53·60
		Thakoorgaon	......	......	......	......	0·57	......	......	1	0·57	0·57	?	53·02	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	......	......	......	......	0·22	......	......	1	0·22	0·51	0·51	48·55	62·15
		Rungpore ...	......	......	......	0·02	0·23	......	......	2	0·25	0·95	0·34	55·30	75·60
		Kurigram ..	......	......	......	......	0·09	......	......	1	0·09	0·61	0·31	76·51	73·85
		Bagdogra (*Nilphamari*).	......	......	......	......	0·06	......	......	1	0·06	1·23	0·48	56·40	85·68
		Ulipore ...	......	......	......	......	0·78	......	......	1	0·78	0·78	?	53·68	?
	Julpigoree ...	Julpigoree ..	......	......	......	......	0·68	......	......	1	0·68	0·88	0·27	107·10	117·96
		Alipore Doar	......	......	......	......	0·90	......	......	1	0·90	1·10	?	82·44	?
		Fallacotta ...	......	......	......	......	0·80	......	......	1	0·80	0·80	?	92·57	?
		Dehiganj ...	......	......	......	......	1·42	......	......	1	1·42	1·66	?	64·25	?
		Bhogotpore (Nagrakatta).	......	......	0·06	......	1·02	......	......	2	1·08	1·52	?	?	?
	Cooch Behar.	Dinhatta .	......	......	......	......	0·60	......	......	1	0·60*	1·10	0·35	93·05	93·40
		Cooch Behar..	......	......	0·25	......	1·97	......	......	2	2·22	2·66	0·28	94·44	118·41
		Mekligunge .	......	......	......	......	2·15	......	......	1	2·15	2·17	0·29	78·95	108·43
		Matabhanga...	......	......	......	......	1·69	......	......	1	1·69	1·95	0·27	76·21	11. 11
	Darjeeling Hill.	Buxa ..	0.01	......	......	......	1·85	......	0·19	3	2·05	2·70	0·72	160·20	193·58
		Silliguri ...	......	......	0·13	0·03	0·68	......	......	3	0·84	1·10	0·14	84·63	103·85
		Darjeeling ...	......	......	0·06	0·31	1·23	......	0·04	4	2·24	2·57	0·67	92·59	109·40
		Kalimpong ..	......	......	0·37	......	1·66	......	......	2	2·03	1·39	0·41	72·53	83·95
NORTH BEHAR	Purneah ...	Kissengunge...	......	......	......	......	......	......	......	Nil	Nil	0·20	0·44	49·56	76·94
		Arrareah ...											0·52		64·30
		Purneah ..								Nil	Nil	Nil	0·53	?	61·94
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	0·75	?	?	?
		Balarampore	......	......	......	......	......	......	......				?		?
	North Bhagulpore.	*Mattari* ...					0·17			1	0·17	0·36	?	59·67	?
		Kalsaganj ...	......	......	......	......	1·10	......	......	1	1·10	1·26	0·51	61·04	50·21
		Maddapore ..	......	......	......	0·33	0·62	......	......	2	0·95	1·01	0·39	45·53	48·73
		Soopool ...	......	......	......	0·44	......	......	......	1	0·44	0·44	?	41·14	?
		Protabganj ...	......	......	......	......	......	......	......						
	Durbhunga	Tajpore ...	......	......	0·90	......	0·85	......	......	2	1·75	1·75	0·38	46·03	43·59
		Durbhunga ...	......	......	0·23	......	0·28	......	......	2	0·51	0·65	0·41	39·09	46·39
		Madhubani ...	......	......	0·03	......	0·66	......	......	2	0·69	0·82	0·39	44·27	45·00
		Bahera ...	......	......	0·09	......	0·60	......	......	2	0·69	0·80	?	55·41	?
		Roshera ...	......	0·40	......	......	0·50	......	......	2	0·90	0·90	?	47·00	?
	Mosufferpore	Sitamarhi ...	......	......	0·14	......	0·28	......	......	2	0·42	0·77	0·27	36·42	43·44
		Mosufferpore	......	0·53	0·24	......	0·52	......	......	3	1·29	1·44	0·40	45·83	46·14
		Hajipore ...	......	0·75	0·32	......	0·04	......	......	3	1·11	1·86	0·43	49·28	42·40
		Paru ...	......	0·29	......	......	1·10	......	......	2	1·39	1·59	?	40·05	?
		Mahua ...	......	0·52	0·36	......	0·17	......	......	3	1·05	1·21	?	45·19	?
		Bruhar ...	......	0·45	......	......	......	......	......	1	0·45	0·80	?	42·91	?
		Pupri ...											?		?
	Chumparun..	Motihari ...	......	0·36	......	......	0·21	......	......	2	0·57	1·20	0·36	39·92	45·12
		Bettiah ...	......	......	0·51	0·39	0·67	......	......	3	1·57	2·02	0·40	40·41	49·15
		Bagaha ...	......	......	0·31	0·10	0·27	......	......	3	0·68	1·15	?	56·04	?
		Burhurwa ..	......	0·32	......	......	0·57	......	......	2	0·89	1·20	?	42·71	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of February 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 16th February 1889.	Sunday, 17th February.	Monday, 18th February.	Tuesday, 19th February.	Wednesday, 20th February.	Thursday, 21st February.	Friday, 22nd February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge ...	...	0·15	...	...	0·85	...	...	2	1·30	1·63	0·39	40·93	44·45
		Sewan ...	...	0·15	..	...	0·31	...	.	2	0·76	0·89	0·41	44·07	44·43
		Chuprah ...	..	0·61	0·05	0·12		...		3	0·80	1·13	0·34	38·91	41·15
SOUTH BEHAR	Shahabad	Buxar ..	...	0·58	..	...	0·18	...	..	2	0·76	1·11	0·32	48·18	38·90
		Dehree ...	...	0·63	0·08		...	...		2	0·71	1·01	0·07	44·98	39·21
		Bhuboocah ...	.	0·40	...	0·30	...	.	.	2	0·70	0·80	0·49	41·47	41·91
		Sasseram ...		0·40	..	0·05		..	..	2	0·45	0·66	0·44	42·89	41·13
		Arrah ...	...	0·48	.	0·25		...	..	2	0·73	1·08	0·44	46·16	40·75
		Mohaniah ...	...	0·50	0·70	...	...	...	...	2	1·20		?		?
	Gya ..	Aurungabad...	...	0·23	0·32	0·30	...	...	...	5	0·85	0·90	0·81	54·87	43·21
		Gya ...	...	...	1·96	..	0·84	...	...	2	2·80	3·13	0·49	55·21	43·17
		Nowadah ...	...	..	0·44	0·17	0·20	...	...	3	0·81	0·86	0·45	50·83	40·56
		Jehanabad ...	...	0·91	0·10	0·24	0·02	...	...	4	1·27	1·68	0·41	48·87	41·13
		Arwal ...	...	0·29	0·38	0·60	..	.	.	3	1·17	1·94	?	40·45	?
		Daudnagar ...	...	0·45	.	...	...	.	...	1	0·45	0·45	?	43·15	?
		Sherrghati ...	...	0·50	0·60		...	...	...	2	1·10	1·10	?	35·35	?
		Rajouli ...	..	0·10	0·10	0·20		...	.	3	0·40	0·55	?	28·58	?
		Pakri Barawan	...	...	0·45	...	...	...	...	1	0·45	0·65	?	38·71	?
	Patna ...	Patna .	..	0·92	0·26	...	0·06		...	3	1·24	1·52	0·36	43·26	42·36
		Dinapore ..	..	0·48	0·20		0·32		..	3	1·00	1·21	0·32	44·91	41·88
		Behar ...	...	0·85	..	0·25	0·81	..	...	3	1·91	2·68	0·52	58·34	42·52
		Barrh ...	...	..	1·00	0·80	0·75	...		3	2·55	2·71	0·41	59·41	40·21
		Bickram ...	...	0·20	..	0·10	..	..	...	2	0·30	0·60	?	40·28	?
		Hilsa ...	...	0·57	0·32	.	0·70	..	..	3	1·59	2·19	?	49·88	?
	Monghyr	Begooserai .	...	.	0·13	1·46	0·46	...	...	3	2·05	2·76	0·53	51·58	40·73
		Monghyr ..	.	..	0·21	.	0·40		...	2	1·61	1·92	0·52	57·83	47·03
		Jamui ...	.	...	0·50	0·15	0·13	..	...	3	0·78	1·04	0·58	52·38	43·69
		Gogri ..	...		0·29	...	.	.	.	1	0·29	0·63	?	64·67	?
		Sheikpura ...		...	.		0·60	.	..	1	0·60	1·10	?	60·73	?
	South Bhagulpore	Bhagulpore ...	...	..	.	0·20	0·39	.	...	2	0·59	1·70	0·46	56·73	42·68
		Banka ..	...	.		0·40	0·14	.	...	2	0·54	0·79	0·47	44·01	45·26
		Kolgong ..	...	..		0·25	.	...	...	1	0·25		?		?
	Sonthal Pergunnahs	Rajmehal ...	...	...	..	0·22	0·10	...	...	2	0·32	0·82	0·25	48·72	52·30
		Godda .	.	.	0·02	0·50	0·11	...		3	0·63	0·88	0·54	52·17	45·71
		Pakour	..	..	...	0·45	0·15	.	...	2	0·60	0·78	0·33	65·18	55·61
		Nya Doomka	..	...		0·08	0·76	..	..	2	0·84	1·14	0·64	54·48	53·89
		Deoghur .	...	...	0·07		0·19	...	...	2	0·26	0·45	0·57	53·83	50·71
		Jamtara ..	...	...	...	0·15	0·15	...	...	2	0·30	0·61	0·32	57·04	48·55
		Mohagama ..		...	.	1·05	0·45	.	..	2	1·50	2·45	?	?	?
		Nonihat ...	..	..	.		0·43	...		1	0·43	0·63	?	29·74	?
CHUTIA NAGPUR.	Hazaribagh ..	Pachamba (*Giridi*).	...	...	0·04	0·25	0·39		...	3	0·68	1·26	0·63	58·13	48·10
		Hazaribagh .	...	0·06	0·59	0·07	..	..	..	3	0·72	0·90	0·64	55·86	48·70
		Suntaguran	...	0·52	0·13	.	..	.	..	2	0·65	0·77	0·41	56·37	46·20
		Mahudi Hills	...	...	0·29	.	.	..	..	1	0·29	0·29	0·52	55·81	48·90
		Jhoomra Hills											0·29		62·78
		Barhi ...	...	...	0·42		0·15	...	..	2	0·57	1·02	?	51·25	?
		Chatra	...	.	1·76	1·85	...		...	2	3·61	3·76	?	57·91	?
		Karagdeha ...											?		?
		Ramghur ..											?		?
	Lohardugga ...	Lohardugga ...	...	0·02	0·83	0·94	...	...	...	3	1·79	1·79	0·32	48·04	52·93
		Ranchi ...	..	..	0·65	0·10	...	...	...	2	0·75	0·75	0·89	53·64	53·02
		Palamow ..	..	0·13									0·47		43·82
		Sili ...	...	...	0·50	0·20	..	..	...	2	0·70	0·70	?		?
		Balumat ...											?		?
		Hosseinabad..	...	0·18	...	...	...	...	...	1	0·18	0·18	?	?	?
		Garwah ...											?		?
	Singbhoom	Chyebassa	...	..	...	0·33	..	...	...	1	0·33	0·33	0·81	40·08	52·52
		Chukradharpore ..	...	...	...	0·72	...	...	..	1	0·72	0·72	?	55·67	?
		Ghatsilla ...											?		?
		Baharagura...											?		?
	Manbhoom ...	Purulia .	...	...	...	0·42	0·15	...	...	2	0·57	0·57	0·88	58·06	49·83
		Gobindpore ...	...	..	0·04	0·14	0·05	...	...	3	0·23	0·58	0·84	37·53	45·89
		Raghunathpore.	...	...	...	...	0·25	1·25	...	2	1·50	2·10	?	55·43	?
		Barrabhoom ..	...	...	...	0·15	0·50	...	...	2	0·65	0·65	?	51·27	?
		Jhalda ...													
		Chas ..													

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 26th February* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 22ND FEBRUARY 1889.

THE week commenced in Bengal with fine weather everywhere; pressure and temperature were both high, and rising; winds were everywhere light, and generally north-westerly on the coast and in South Bengal, but south-westerly in the interior. There were, however, on the last day of the previous week distinct indications of the advance of a barometric depression over the North-West frontier, and on the 16th a well-formed depression covered Rajputana and part of Central India. The weather continued fine on Saturday in Bengal, and in most districts on Sunday, when the first symptoms of the depression approaching from Central India appeared in the west of the province, but the depression in its advance had become decidedly more diffused, and on this day it covered the greater part of the North-West Provinces and Central India. The barometer then fell over the whole of Bengal, and though humidity decreased in South Bengal, the skies were clouded in Behar and West Bengal, and light clouds appeared elsewhere. Rain fell in many parts of Behar on the 17th, some stations in the Patna and Gya districts reporting about an inch. Winds still remained light, but the direction was more generally northerly. The fall of pressure that commenced on the 17th continued nearly everywhere till Wednesday, the only exceptions being in Orissa and along the east coast of the Bay, where occasionally pressure rose slowly. The depression on approaching Bengal continued to become more diffused, and when it actually advanced over the province it to a considerable extent filled up. Hence, though the weather was unsettled and a considerable amount of rain fell during its passage over the province, the total fall of pressure during the four days, from Sunday to Wednesday, was not very large. On Monday, the 18th, rainfall became more general in the northern districts, but none fell in the south of the province, until the 19th, when fairly heavy rain commenced, which continued at many stations on the 20th. The rainfall on Tuesday, the 19th, was general all over the province; but, as it frequently accompanied thunderstorms, the falls were very irregular in amount, some stations receiving considerably more than an inch, and some none at all. The amounts were, however, usually between a fourth and half an inch. On the 20th, the distribution of the rainfall was very similar to that of the 19th, irregular and rather light, but general over the province. The diffused low-pressure area was on this day over East Bengal, where the fall of pressure amounted to about ·05 inch, and southerly winds accompanied the depression, though in the western districts a strong, north-westerly current had set in. The depression then advanced in an easterly direction, and disappeared from the province, and no rain fell after the 20th. The pressure then rose rapidly, and though the temperature changes were very irregular, fine weather became general over the province for the last two days of the week.

Pressure.—In the early part of the week pressure was very high, showing an excess in all districts of about a tenth of an inch. Though a considerable fall occurred during the passage of the low-pressure area between Sunday and Wednesday, the average pressure for the week is in most cases in excess of the normal, but the variations from the normal are slight and irregular at the various stations. On Saturday there was a general rise, and on Sunday a fall set in, which continued for four days. The fall was no where very rapid, and the largest total fall during that time did not exceed 0·2 inch. At most of the stations it varied between 0·1 inch and 0·15 inch. The fall was most rapid in North Behar on Sunday, and hence spread over the province. On Monday the changes were everywhere moderate. On Tuesday the most rapid fall was in North Bengal, and on Wednesday in East Bengal. The depression then left the province, and on Thursday a rapid rise took place everywhere, amounting to about a tenth of an inch in East Bengal. On Friday a slight variable fall occurred, without affecting the general conditions, and at this time pressure was nearly equal to the normal. For the whole week the average pressure for the province has been only about three thousandths of an inch above the normal, defects being registered in the north-west angle of the Bay, at Patna and in Chutia Nagpur, and slight excess pressures elsewhere.

Temperature—Variations from the normal show considerable diversity in different districts, and even at different stations in the same district. In South-West Bengal the mean for the week generally differs from the normal by less than a degree. In North-East and North Bengal there is an excess of about 4°. In other parts the variations are irregular, and in some cases large. At Chupra there is a defect of over 5°. In South-West Bengal the average for the district is almost normal, and the differences at the reporting stations vary between a defect of more than 2° at Calcutta to an excess of 2° at Raneegunge. The day temperatures have everywhere been in defect, and the night temperatures in excess, the excess in North Bengal being due entirely to the high temperatures during the night. The daily changes have been generally irregular. In the early part of the week there was a small rise, which continued for the first four days of the week. The only exception was in South Bengal, where a slight fall occurred on Sunday. On Wednesday there was a general fall, large in some cases, Calcutta and Burdwan having a fall of over 8°, and Dacca and Jessore one of more than 5°. On Thursday and Friday the changes were again irregular, but generally the temperature decreased. The general mean temperature of the province

for the whole week was nearly one degree above the normal.

The following table shows clearly the general distribution of temperature for the week, and its variation from the normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 22nd February 1889.

	Normal mean maximum temperature for the week ending 22nd February.	Actual mean maximum temperature for the week ending 22nd February 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 22nd February.	Actual mean minimum temperature for the week ending 22nd February 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 22nd February.	Actual mean daily temperature for the week ending 22nd February 1889.	Variation of actual mean from the normal.
Cuttack	90.2	90.3	+0.1	65.1	65.9	+0.8	77.7	78.1	+0.4
Calcutta	82.7	78.8	−3.9	60.7	59.5	−1.2	71.7	69.2	−2.5
Dacca	83.3	82.7	−0.6	58.2	59.9	+1.7	70.8	71.3	+0.5
Burdwan	83.8	82.0	−1.8	57.8	59.8	+2.0	70.8	70.9	+0.1
Patna	77.7	77.5	−0.2	52.2	56.7	+4.5	65.0	67.1	+2.1
Gya	82.3	78.4	−3.9	56.1	58.7	+2.6	69.2	68.5	−0.7
Purneah	80.6	80.3	−0.3	[illegible]	57.0	+4.9	66.4	68.7	+2.3
Hazaribag	78.6	76.9	−1.7	[illegible]	55.2	+1.0	66.4	66.1	−0.3
Darjeeling	48.2	48.6	+0.4	35.0	36.2	+1.2	41.6	42.4	+0.8

Rainfall.—Rain has been fairly general over the province during three days in connection with the depression which passed over Bengal during the early part of the week. It began in Behar on Sunday, and on Monday became general in the northern districts. On Tuesday and Wednesday the fall was general over the greater part of the province, and frequently accompained local thunderstorms. Hence the reports from different stations show considerable variety as to amount.

In Behar the general average fall has equalled about an inch, and in Orissa and South-West Bengal it has averaged about eight or nine tenths. In the remaining districts of East and North Bengal and Chutia Nagpur, the fall has equalled about four and five tenths. In all cases these falls represent amounts very considerably in excess of the normal for the period.

Taking up the district average rainfalls for the week, the following districts have received falls in excess of one and-a-half inches:—Midnapore and parts of 24-Pergunnahs and Patna; the following falls exceeding an inch:—Howrah, Hooghly, Julpigoree, Cooch Behar, Chumparun, South Bhagulpur, and Monghyr; and the following falls in excess of half an inch:—Bankoorah, Moorshedabad, Backergunge, Bogra, Durbhanga, Sarun, and Shahabad; while the smallest falls, and where the amounts do not average a tenth of an inch, have occurred in Mymensingh, Pubna and Purneah.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 22nd of February 1889:—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93.4	50.6	85.1	65.9	75.5	+0.9	0.92	0.19	+0.73	1.1	0.4	+0.7	0.93	0.76	51.47	54.25
South-West Bengal ...	87.3	53.9	81.5	60.0	70.7	−0.1	0.84	0.22	+0.62	1.7	0.4	+1.3	1.28	0.91	56.62	52.90
East Bengal	89.6	53.8	81.9	58.4	70.2	+1.4	0.43	0.19	+0.24	0.9	0.5	+0.4	0.88	0.87	71.91	75.17
North Bengal	86.0	49.9	79.6	56.9	68.3	+3.1	0.56	0.20	+0.36	1.4	0.4	+1.0	0.96	0.54	56.54	70.99
North Behar	84.2	54.0	72.8	57.4	65.1	−0.3?	1.10	0.08	+1.02	2.5	0.3	+2.2	1.35	0.40	45.84	49.20
South Behar	84.8	53.4	77.9	57.2	67.6	+1.4	1.01	0.12	+0.89	2.3	0.3	+2.0	1.32	0.42	51.41	44.29
Chutia Nagpur	84.7*	51.0*	76.8*	54.6*	65.7*	−0.4*	0.51	0.11	+0.40	2.0	0.4	+1.6	0.69	0.61	51.66	50.17

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 26th February 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 17th to 23rd February 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb	17th	141·1	10·1	29·995	71·0	82·7	24·4	58·3	63·9	0·503	59·1	69	NNW, SE by E and SSW.	32	Nil	Chiefly clear, ⌂.
„	18th	138·7	10·0	·958	71·6	81·6	19·7	61·9	65·5	·547	61·4	72	NNE, WSW and S	36	......	Chiefly clear, ⌂.
„	19th	93·7	Nil	·936	67·8	70·0	6·6	63·4	65·7	·606	61·4	89	SE and variable ...	59	0·90	Cloudy, o, g, d, p, t, <, K.
„	20th	133·8	10·7	·922	68·3	77·0	17·7	59·3	63·9	·538	61·0	79	WNW, calm and variable.	57	0·52	Partially cloudy, p.
„	21st	132·9	9·7	·977	67·1	75·1	17·8	57·3	61·2	·463	56·8	71	WNW and calm ..	40	Nil	Chiefly clear, ≡, ⌂.
„	22nd	136·0	8·4	·962	68·4	78·3	21·4	56·9	63·3	·516	59·8	76	WSW and calm ...	31	„	Chiefly clear. ⌂.
„	23rd	141·8	9·5	986	72·1	81·7	19·3	62·4	68·0	·633	65·6	81	ESE and SW ...	41	„	Chiefly cloudy, ≡, ⌂.

	Inches.
The mean pressure of the seven days	29·964
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·943
	Hours.
The total number of hours of bright sunshine	58·4
The maximum possible number of hours of sunshine	80·2
	°
The mean temperature of the seven days	69·5
The average temperature of the corresponding period for 24 years, S. G.'s Office	74·4
The extreme variation of temperature	25·8
The maximum temperature	82·7
	Miles.
The highest velocity of the wind in one hour	11
	lbs.
The highest pressure of wind on one square foot	Not measurable
	%
The mean relative humidity	77
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	67
	Inches.
The total fall of rain from 17th to 23rd February 1889	1·42
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·25
The total fall from 1st January to 23rd February 1889	2·62
The average fall of the corresponding period for 24 years, S. G.'s Office ...	1·30

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, < lighting, ≡ fog, ⌂ dew, K thunderstorm.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 25th February 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 17th to 23rd February 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
February ...	17th .	30·086	72·4	85 4	26·0	59·4	77 1	65·1	·460	56·6	49	
" ...	18th ..	·052	72·8	84·5	23 5	61·0	74 1	66·1	·535	60·9	63	
" .	19th ..	29·989	68 4	71·9	7·0	64·9	69·6	67·4	·643	66·1	89	0·69
" ...	20th ...	·997	69 6	78·9	18·6	60·3	71·6	67·4	·616	64·9	79	0 79
" ...	21st ..	30 052	68 1	78·1	20·0	58·1	71·6	63·6	·483	58·0	62	
" ...	22nd ...	·013	69·3	80·4	22·3	58·1	75·1	66·6	·541	61 2	62	
" ...	23rd ...	·046	74·0	84·7	21·4	63·3	76·6	71·1	·689	68·2	75	

	Inches.
The mean 10 A.M. pressure of the seven days	30·034
	°
The mean temperature of the seven days	70·7
The extreme variation of temperature	27·3
The maximum temperature	85·4
	%
The mean relative humidity at 10 A.M.	68
	Inches.
The total fall of rain from 17th to 23rd February 1889	1·48

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 25th February 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

The number of deaths registered during the month of December 1888 in the districts of Bengal amounted to 166,117 among a population of 66,055,695, yielding a death-rate of 30 12 per 1,000, as opposed to 25 44 per 1,000 during the preceding month, and 26 28 per 1,000 during the corresponding month of 1887, showing, as compared with both the past periods, a considerable advance in the number of deaths recorded.

2. The highest proportions of deaths were returned from the following districts :—

Districts.	Ratio per *mille.*	*Districts.*	Ratio per *mille.*
Maldah	56·76	Murshedabad	35 16
Dinajpur	47·64	Rajshahye	33 60
Jessore	46·32	Dacca	33·60
Khulna	45·60	Hazaribagh	33·48
Backerganj...	44 40	Shahabad	33·24
Julpaiguri	43 44	Pubna	32·64
24-Pergunnahs	40 92	Hughli	32·16
Purneah	40·56	Tipperah	32 04
Rungpore	38 76	Birbhum	31·80
Noakhali	38·64	Serampore	31·20
Nuddea	38·40	Bogra	30 72
Howrah	36 60	Gya	30·60

3. Of the diseases mentioned below, it will be seen that cholera and fever prevailed with much greater severity in December 1888 than in the corresponding month of the preceding year, that bowel-complaints and injury exhibited no variations whatever, and that the death-rates under other heads manifested only fractional differences :—

	Ratio per *mille* during— December 1888.	December 1887.
Cholera	1·92	·81
Small-pox	·07	·03
Fever	22 56	20 52
Bowel-complaints	·84	·84
Injury	·12	·12
Other causes	4·44	3·72

4. The following districts returned the highest rates of deaths per 1,000 of population from the above-named diseases, excepting small-pox, bowel-complaints and injury, which did not appear to have prevailed with more than ordinary severity anywhere :—

Cholera.	Ratio per *mille.*
Maldah	14·16
Nuddea	8·16
Jessore	8·04
Backerganj	7·68
Khulna	7·08
24-Pergunnahs... ...	6·84
Howrah	4·80
Dacca	4·44
Murshedabad	4·08
Faridpore	3·84
Rajshahye	3·00
Serampore	2·04

Fever.	Ratio per *mille.*
Dinajpur	44·16
Julpaiguri	41·28
Maldah	40 32
Purneah	37·92
Rungpore	36·24
Jessore	35·40
Noakhali	31 80
Khulna	31·32
Hazaribagh	29 52
Pubna	29·28
Rajshahye	28·68
Murshedabad	28·44
Shahabad	27·84
24-Pergunnahs ...	26 64
Gya	26 64
Nuddea	26·28
Bogra	24·96
Monghyr	23·28
Birbhum	23·04
Darjiling	23 04
Hughli	21·96
Backerganj	21·84
Bhagulpore	21·60
Faridpore	20·64
Midnapore	20·52
Dacca	20·16

Other causes.	Ratio per *mille.*
Puri	18·84
Backerganj	14 04
Tipperah	9 72
Sarun	9 00

5. The mortality of the month under the heads of *Sex*, *Class* and *Age* stood as indicated below :—

According to Sex.	Ratio per *mille.*
Males	31·92
Females	28·44
Ratio of male deaths to every 100 female deaths	110

According to Class.	Ratio per *mille.*
Christians	21·48
Hindus	28·32
Mahomedans... ...	34 56
Buddhists	13 68
Other classes ...	20·04

According to Age.	Ratio per *mille.*
Under 1 year ...	215·64
1 and under 5 years ...	32 28
5 „ 10 „ ...	15 96
10 „ 15 „ ...	13 08
15 „ 20 „ ...	19 20
20 „ 30 „ ...	19·20
30 „ 40 „ ...	21·36
40 „ 50 „ ..	28·08
50 „ 60 „ ...	40·80
60 years and upwards ...	78·96

W. H. Gregg, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 23rd February 1889.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of December 1888.

1. Divisions.	2. Districts.	3. Population: Males.	Population: Females.	Population: Total.	4. Mortality according to Disease — Deaths from: Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	5. Ratio per 1,000 of population per annum: Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	6. Comparison with previous periods: Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	7. Sex — Deaths among: Males.	Females.	8. Ratio per 1,000 of population per annum: Males.	Females.	9. Ratio of male deaths to every 100 female deaths.
BURDWAN ...	Burdwan	668,295	723,528	1,391,823	123	1	2,249	62	4	503	2,942	·96	·008	19·32	·48	·02	4·32	25·32	19·68	27·60	1,527	1,415	27·36	23·40	107
	Bankura	507,136	534,616	1,041,752	37	14	1,323	23	10	291	1,698	·36	·12	15·12	·24	·10	3·24	19·44	16·44	16·92	955	743	22·56	16·56	128
	Birbhum	381,563	412,865	794,428	47	....	1,629	8	8	821	2,113	·60	.. ...	23·04	·12	·12	7·80	31·80	24·72	38·52	1,054	1,059	33·12	30·72	99
	Midnapore	1,243,195	1,272,370	2,515,565	283	2	4,304	271	43	1,059	5,962	1·32	·008	20·52	1·20	·12	5·04	28·44	22·80	31·80	3,073	2,889	29·64	27·24	106
	Hughli	315,665	347,385	663,050	93	2	1,215	162	15	293	1,780	1·68	·03	21·96	2·88	·24	5·28	32·16	27·84	31·44	942	838	35·76	23·80	111
	Serampore	174,366	177,589	351,955	60	1	539	142	3	171	916	2·04	·02	18·36	4·80	·09	5·52	31·20	29·76	24·48	488	428	33·48	28·92	114
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	153	3	1,754	304	18	464	2,696	1·80	·02	20·64	3·48	·12	5·40	31·80	28·44	29·04	1,430	1,266	34·92	28·92	112
	Howrah	316,479	318,902	635,381	258	......		373	20	387	1,939	4·80	.. ..	16·92	6·96	·36	7·20	36·60	24·00	34·20	1,044	895	39·48	33·60	116
PRESIDENCY ...	24-Pergunnahs	975,430	894,429	1,869,859	1,068	1	4,153	442	50	678	6,392	6·84	·006	26·64	2·76	·24	4·32	40·92	32·52	40·32	3,537	2,855	43·44	38·28	123
	Nuddea	805,779	849,942	1,655,721	1,142	......	3,640	24	27	478	5,311	8·16	......	26·28	·12	·12	3·36	38·40	28·92	36·00	2,767	2,544	41·16	35·88	108
	Jessore	959,271	980,104	1,939,[illegible]75	1,302	... .	5,738	18	25	420	7,503	8·04	......	35·40	·10	·12	2·52	46·32	33·24	30·84	3,944	3,559	49·32	43·56	110
	Murshidabad	586,483	640,307	1,226,790	421	9	2,919	38	12	204	3,603	4·08	·08	28·44	·36	·10	1·92	35·16	33·48	36·00	1,912	1,691	39·12	31·68	113
	Khulna	568,402	511,546	1,079,948	638		2,822	51	24	574	4,113	7·08	. .	31·32	·48	·24	6·36	45·60	32·76	35·04	2,122	1,991	44·76	46·68	106
RAJSHAHYE ...	Dinajpur	782,292	732,054	1,514,346	155	1	5,582	6	16	2[illegible]7	6,027	1·20	·007	44·16	·03	·12	2·04	47·64	33·12	41·40	3,151	2,876	48·24	47·04	109
	Rajshahye	660,226	678,412	1,338,638	348	.. ..	3,200	18	23	160	3,749	3·00	.....	28·68	·12	·12	1·32	33·60	26·64	41·28	2,020	1,729	36·60	30·48	116
	Rungpore	1,067,701	1,030,263	2,097,964	33	. ...	6,344	16	16	368	6,777	·12	.. ...	36·24	·08	·08	2·04	38·76	31·56	40·08	3,497	3,280	39·24	38·16	106
	Bogra	372,677	361,681	734,358	55	.. ...	1,530	10	16	271	1,882	·84	......	24·96	·12	·24	4·32	30·72	25·44	39·72	980	902	31·44	29·88	108
	Pubna	648,311	663,417	1,311,728	183	......	3,210	31	12	135	3,571	1·56	......	29·28	·24	·10	1·20	32·64	27·84	34·92	1,996	1,575	36·96	28·44	126
	Darjiling	89,398	66,739	156,137	.....	......	300	18	3	47	368	..	... ..	23·04	1·32	·12	3·60	28·20	23·32	30·00	219	149	29·28	26·76	146
	Jalpaiguri	305,555	276,007	581,562	8	......	2,003	2	6	91	2,110	·12	.. .	41·28	·03	·12	1·80	43·44	35·64	41·16	1,182	928	45·12	40·32	127
DACCA ...	Dacca	1,033,863	1,082,487	2,116,350	803	2	3,568	244	13	1,304	5,934	4·44	·01	20·16	1·32	·07	7·32	33·60	21·60	26·64	3,139	2,795	36·36	30·96	112
	Faridpore	805,989	825,745	1,631,731	533	7	2,810	65	21	434	3,570	3·84	·04	20·64	·36	·12	3·12	25·44	20·[illegible]6	15·36	2,089	1,781	31·08	25·80	117
	Backerganj	973,479	927,410	1,900,889	1,224	3	3,466	83	32	2,238	7,044	7·68	·01	21·84	·48	·12	14·04	44·40	27·96	38·16	3,473	3,571	42·72	46·20	97
	Mymensing	1,553,397	1,498,569	3,051,966	136	92	5,071	107	19	780	6,261	·72	·36	19·92	·36	·07	3·00	24·60	19·56	21·60	3,315	2,946	25·56	23·52	112
CHITTAGONG ...	Chittagong	531,649	600,692	1,132,341	9	1	1,791	156	27	233	2,217	·08	·009	18·96	1·56	·24	2·40	23·40	19·44	20·04	1,115	1,102	25·08	21·96	101
	Noakhali	415,248	405,524	820,772	88	.....	2,183	36	28	308	2,643	1·20	.. ...	31·80	·48	·36	4·44	38·64	29·04	26·28	1,240	1,403	35·76	41·40	88
	Tipperah	770,893	748,445	1,519,338	216	37	2,454	107	19	1,232	4,065	1·68	·24	19·32	·84	·12	9·72	32·04	26·52	25·44	2,084	1,981	32·40	31·68	104
PATNA ...	Patna	858,783	898,073	1,756,856	21	16	2,134	146	36	601	2,954	·12	·10	14·52	·96	·24	4·08	20·16	22·56	16·80	1,572	1,382	21·96	17·16	113
	Gya	1,043,441	1,081,241	2,124,682	3	32	4,723	43	79	550	5,430	·01	·18	26·64	·24	·36	3·00	30·60	33·48	18·36	2,788	2,642	32·04	29·28	105
	Shahabad	950,250	1,014,659	1,964,909	16	9	4,571	110	49	690	5,445	·09	·04	27·84	·60	·24	4·20	33·24	39·48	17·40	2,778	2,667	35·04	31·44	104
	Mozufferpore	1,265,731	1,316,329	2,582,060	36	2	3,138	126	30	437	3,769	·12	·008	14·52	·48	·12	1·92	17·40	16·20	9·60	2,126	1,643	20·04	14·88	129
	Durbhanga	1,295,788	1,337,659	2,633,447	5	1	3,165	105	29	232	3,537	·01	·003	14·40	·36	·12	·96	16·08	13·92	14·28	1,874	1,663	17·28	14·88	113
	Sarun	1,083,565	1,196,817	2,280,382	1	33	1,509	273	43	1,732	3,590	·004	·12	7·92	1·32	·12	9·00	18·84	16·08	13·20	1,919	1,671	21·24	16·68	114
	Chumparun	870,627	850,981	1,721,608	2	50	2,569	18	21	505	3,465	·01	·24	19·92	·12	·12	3·48	24·12	23·76	16·08	1,875	1,590	25·80	22·32	117
BHAGULPORE ...	Monghyr	969,124	1,000,650	1,969,774	22	2	3,832	40	43	733	4,672	·12	·01	23·28	·24	·24	4·44	28·44	32·04	30·24	2,483	2,189	30·72	26·16	113
	Bhagulpore	979,119	987,039	1,966,158	43	3	3,540	51	24	586	4,247	·24	·01	21·60	24	·12	3·48	25·92	32·04	29·28	2,210	2,037	27·00	24·72	108
	Purneah	937,080	911,607	1,848,687	222	......	5,852	6	12	161	6,253	1·44	......	37·92	·03	·07	·96	40·56	33·36	35·40	3,247	3,006	41·52	39·48	108
	Maldah	346,998	363,450	710,448	839	......	2,388	12	7	117	3,363	14·16	......	40·32	·12	·10	1·92	56·76	70·32	48·00	1,829	1,534	63·24	50·64	119
	Sonthal Pergunnahs	785,330	782,763	1,568,093	66	......	1,501	16	13	153	1,749	·48	.	11·46	·12	·09	1·08	13·20	13·68	14·04	983	766	15·00	11·64	128
ORISSA ...	Cuttack	877,702	917,363	1,795,065	22	8	1,[illegible]83	409	46	1,244	3,564	·12	·04	12·24	2·64	·24	8·28	23·76	13·80	21·72	1,841	1,723	25·08	22·44	106
	Puri	446,609	441,878	888,487	20	60	325	196	24	1,395	2,022	·24	·72	4·32	2·64	·24	18·84	27·24	16·68	33·00	1,057	965	28·32	26·16	109
	Balasore	461,461	483,819	945,280	14	20	1,059	465	20	684	2,262	·12	·24	13·44	5·88	·24	8·52	28·68	17·76	25·68	1,134	1,128	29·40	27·96	100
CHOTA NAGPORE ...	Hazaribagh	544,903	559,839	1,104,742	...	9	2,725	37	41	277	3,089	......	·09	29·52	·36	·36	3·00	33·48	30·36	25·92	1,520	1,569	33·36	33·60	98
	Lohardugga	796,657	612,587	1,409,244	... ..	... .	2,548	119	14	687	3,368	..	... ..	18·96	·84	·09	5·04	25·08	22·44	18·00	1,750	1,618	26·28	23·83	108
	Singbhum	226,681	227,094	453,775	24	... .	606	50	18	146	844	·60	.. ..	15·96	1·32	·36	3·84	22·20	19·44	17·40	476	368	25·08	19·44	129
	Manbhum	525,328	532,900	1,058,228	31	1	1,370	77	10	215	1,704	·24	·01	15·48	·84	·10	2·40	19·32	13·80	15·36	921	783	21·00	17·52	117
	TOTAL FOR THE PROVINCE	32,777,919	33,277,776	66,055,695	10,698	418	124,536	4,812	1,055	24,598	160,117	1·92	·07	22·56	·84	·12	4·44	30·12	25·44	26·28	87,246	73,871	31·92	28·44	110

10 11 12 13

MORTALITY ACCORDING TO—

Class.

Divisions.	Districts.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
BURDWAN	Burdwan	......	2,397	545	.....	...	...	25·50	24·72	......	...
	Bankura	...	1,545	64	...	59	...	20·28	16·5[illegible]	...	12·60
	Birbhum	...	1,689	403	...	22	...	32·76	20·64	...	18·24
	Midnapore	1	5,3[illegible]5	305	...	295	16·20	28·68	22·20	...	20·36
	Hughli	1	1,390	369	...	...	41·28	31·20	35·88	...	..
	Serampore	1	738	177	...	...	52·88	30·24	35·88		..
	Total (Hughli, including Serampore)	2	2,128	566	......	...	36·60	30·34	35·88	.	
	Howrah	1	1,318	420	......	......	5·76	36·38	38·04	..	...
PRESIDENCY	24-Pergunnahs	44	3,686	2,658	1	...	37·65	38·28	45·18	33·60	.
	Nuddea	40	2,240	3,051	.	...	74·64	36·84	39·56	...	.
	Jessore	2	2,848	1,653	...	...	48·72	44·44	47·64	.	.
	Murshidabad	...	1,788	1,815		.	..	33·72	35·84	.	
	Khulna	3	1,927	2,185	...	..	48·12	44·04	47·04	.	.
RAJSHAHYE	Dinajpur	2	[illegible]	3,421	...	3	52·44	43·92	51·48	.	24·72
	Rajshahye	...	816	2,9[illegible]3	..	..	..	33·84	33·58	.	
	Rungpore	...	2,578	4,190	..		..	37·8[illegible]	[illegible]	.	
	Bogra	...	350	1,740		.		28·7[illegible]	31·24	..	...
	Pubna	.	929	2,071	..		.	30·48	3[illegible]·18		...
	Darjiling	.	3[illegible]3	[illegible]	12		.	31·44	33·[illegible]	7·58	.
	Jalpaiguri	.	1,1[illegible]7	946	.	27	.	37·08	34·36	.	7[illegible]·7[illegible]
DACCA	Dacca	20	2,480	3,454	..	....	27·24	31·68	32·58	.	
	Faridpore	2	1,587	2,[illegible]81	...	...	8·64	30·[illegible]	27·96		.
	Backerganj	4	2,2[illegible]1	4,828	1	.	12·84	42·36	45·6[illegible]	2·49	
	Mymensingh	.	2,69[illegible]	4,[illegible]		119		[illegible]	23·76	.	51·3[illegible]
CHITTAGONG	Chittagong	2	5[illegible]0	1,748	77	..	22·68	25·36	23·[illegible]	17·04	
	Noakhali	1	570	2,072		..	2[illegible]·40	32·28	40·8[illegible]	...	
	Tipperah	..	1,[illegible]	2,7[illegible]0				31·50	32·28	..	.
PATNA	Patna	.	[illegible]	292	..	.		[illegible]	[illegible]	.	
	Gya	.	4,88[illegible]	547	.	.		[illegible]	[illegible]	.	.
	Shahabad		5,1[illegible]9	256	.	...		[illegible]	[illegible]	..	
	Mozufferpore	....	3,[illegible]48	371	.	.	.	17·88	15·92		
	Durbhunga	..	5,172	385	..			[illegible]	14·88	.	
	Sarun	..	3,2[illegible]9	357	...			20·04	[illegible]	.	
	Chumparun	8	[illegible]	427	...		43·50	[illegible]	21·00	.	
BHAGULPORE	Monghyr	.	4,216	[illegible]	...	6	...	[illegible]	[illegible]	..	[illegible]
	Bhagulpore		3,941	505	.	1	.	26·76	[illegible]	.	·72
	Purneah		3,67[illegible]	2,580		.		[illegible]	30·12		.
	Maldah		1,842	1,517		4		58·20	[illegible]		27·48
	Sonthal Pergunnahs	2	[illegible]	154	.	512	7·50	17·24	16·92	.	19·1[illegible]
ORISSA	Cuttack	3	5,177	[illegible]	.	.	17·0[illegible]	[illegible]	[illegible]		
	Puri	2	[illegible]	17	.	.	[illegible]	27·48	11·4[illegible]	..	
	Balasore	1	2,221	57	.	5	14·04	[illegible]	15·60		7·52
CHOTA NAGPORE	Hazaribagh	...	[illegible]	[illegible]		15[illegible]		[illegible]	[illegible]	.	24·84
	Lohardugga	37	1,061	21[illegible]	.	1,452	[illegible]	[illegible]	[illegible]		[illegible]
	Singbhoom	3	[illegible]	4		1	[illegible]	[illegible]	[illegible]		18·15
	Manbhoom	[illegible]	1,52[illegible]	71		10[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
	TOTAL FOR THE PROVINCE	183	101,[illegible]21	61,7[illegible]	91	2,7[illegible]	21·18	28·52	34·76	13·68	21·04

Age.

Districts.	Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	733	245	172	120	100	381	378	311	233	402	191·64	22·32	12·60	10·68	18·60	17·88	20·40	24·36	29·16	68·60
Bankura	317	[illegible]	123	77	98	212	210	170	124	253	153·08	[illegible]	9·72	8·52	12·36	13·56	16·32	29·40	23·88	54·48
Birbhum	521	255	141	87	62	215	206	197	126	271	174·52	38·16	14·80	12·84	14·64	19·8[illegible]	20·28	27·24	26·04	70·32
Midnapore	1,271	576	320	223	280	580	620	564	549	941	243·9[illegible]	25·20	11·28	10·80	13·56	14·76	20·28	28·80	46·08	85·92
Hughli	343	158	100	58	92	219	225	198	146	241	242·64	32·04	17·52	11·16	18·48	20·28	25·20	31·44	18·60	78·24
Serampore	174	109	[illegible]	22	40	94	94	98	80	136	[illegible]	40·92	24·48	8·64	15·24	15·90	19·32	28·68	37·92	83·76
Total (Hughli, including Serampore)	517	267	169	80	132	313	314	296	226	377	229·02	35·16	19·8[illegible]	10·32	17·28	18·72	23·80	30·48	37·08	30·16
Howrah	356	[illegible]	148	70	100	172	171	156	113	356	220·32	51·36	22·68	13·68	22·20	16·92	21·84	30·72	36·02	110·28
24-Pergunnahs	[illegible]	84[illegible]	635	301	[illegible]	870	735	508	473	853	183·48	43·20	30·00	20·64	33·96	29·64	30·84	32·76	51·24	93·24
Nuddea	775	911	652	334	248	458	45[illegible]	453	374	624	[illegible]	53·76	31·84	23·16	29·4[illegible]	20·88	22·80	32·76	41·76	71·52
Jessore	93[illegible]	1,256	[illegible]	517	[illegible]	893	706	505	407	843	217·44	65·76	41·80	31·50	36·84	29·64	33·04	37·08	39·12	85·44
Murshidabad	41[illegible]	521	412	206	220	[illegible]	387	320	241	438	192·60	41·16	27·48	20·28	26·76	23·64	26·52	31·80	37·56	67·68
Khulna	[illegible]	497	58[illegible]	[illegible]	[illegible]	511	394	[illegible]	258	575	262·80	57·00	30·24	20·40	30·60	31·44	31·80	38·64	46·08	110·40
Dinajpur	894	913	[illegible]	280	[illegible]	807	768	552	377	[illegible]	[illegible]	63·00	23·64	22·44	25·20	41·76	40·56	45·12	56·64	79·92
Rajshahye	417	[illegible]	[illegible]	241	230	741	[illegible]	347	220	325	[illegible]	38·04	25·68	21·60	26·40	28·20	27·72	32·52	38·04	55·44
Rungpore	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	842	670	447	[illegible]	228·72	54·00	20·28	17·16	28·32	31·00	31·44	36·96	43·20	69·36
Bogra	[illegible]	[illegible]	162	88	92	[illegible]	221	193	118	102	[illegible]	[illegible]	15·9[illegible]	14·52	18·48	22·92	25·20	35·28	39·76	62·28
Pubna	308	[illegible]	510	282	261	[illegible]	377	232	151	30[illegible]	232·00	[illegible]	20·04	[illegible]	31·8[illegible]	24·6[illegible]	25·08	22·68	24·72	54·60
Darjiling	[illegible]	4[illegible]	15	14	24	71	4[illegible]	31	19	39	253·44	[illegible]	9·60	10·68	[illegible]	24·48	22·92	27·21	31·44	67·20
Jalpaiguri	523	[illegible]	[illegible]	[illegible]	[illegible]	184	[illegible]	[illegible]	180	244	[illegible]	[illegible]	[illegible]	12·72	32·28	23·28	36·12	48·00	63·84	90·84
Dacca	[illegible]	[illegible]	[illegible]	370	[illegible]	642	611	427	302	[illegible]	220·80	34·20	[illegible]	16·32	22·32	25·1[illegible]	26·28	27·30	32·16	87·12
Faridpore	[illegible]	[illegible]	[illegible]	[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]	547	182·70	28·32	16·92	15·00	[illegible]	19·68	20·88	23·76	32·16	66·96
Backerganj	1,774	808	[illegible]	[illegible]	[illegible]	777	608	436	408	[illegible]	[illegible]	43·20	26·16	15·84	24·00	27·12	[illegible]	31·32	45·24	109·04
Mymensingh	810	[illegible]	511	[illegible]	445	744	612	518	[illegible]	[illegible]	[illegible]	[illegible]	12·24	10·92	[illegible]	18·72	19·92	23·52	35·04	66·96
Chittagong	511	[illegible]	[illegible]	71	117	187	261	213	[illegible]	417	109·32	24·0[illegible]	8·16	6·24	14·28	15·32	22·56	26·28	40·80	81·12
Noakhali	612	512	184	73	[illegible]	[illegible]	[illegible]	167	145	416	[illegible]	54·84	16·68	9·72	17·04	[illegible]	21·36	28·32	37·56	115·28
Tipperah	[illegible]	427	[illegible]	117	[illegible]	450	[illegible]	288	[illegible]	641	370·80	24·48	[illegible]	[illegible]	[illegible]	21·48	19·56	25·32	36·24	98·40
Patna	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	257	251	322	[illegible]	[illegible]	177·00	17·04	[illegible]	5·88	6·72	[illegible]	11·64	[illegible]	27·48	54·96
Gya	880	[illegible]	[illegible]	[illegible]	[illegible]	468	463	587	[illegible]	1,126	[illegible]	27·12	12·24	11·04	11·28	15·84	17·52	31·08	54·72	106·68
Shahabad	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	482	[illegible]	638	655	[illegible]	[illegible]	[illegible]	10·08	7·70	11·52	17·64	22·44	38·76	65·52	117·60
Mozufferpore	500	347	[illegible]	[illegible]	100	[illegible]	[illegible]	521	476	[illegible]	[illegible]	[illegible]	[illegible]	6·96	11·40	12·48	15·00	22·92	33·60	49·56
Durbhunga	[illegible]	[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]	479	[illegible]	571	84·12	15·30	[illegible]	6·48	8·16	9·72	11·64	19·50	[illegible]	48·60
Sarun	433	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	340	[illegible]	[illegible]	1,0[illegible]3	[illegible]	16·08	[illegible]	5·40	[illegible]	8·52	11·76	18·90	35·04	58·44
Chumparun	341	476	[illegible]	[illegible]	125	[illegible]	387	[illegible]	416	527	[illegible]	[illegible]	[illegible]	11·64	13·08	[illegible]	17·04	25·56	48·00	66·12
Monghyr	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	451	[illegible]	917	[illegible]	[illegible]	9·12	9·00	8·16	11·70	12·00	25·52	42·96	97·32
Bhagulpore	722	[illegible]	[illegible]	178	[illegible]	188	471	421	[illegible]	595	[illegible]	27·00	11·76	10·08	14·16	17·4[illegible]	18·60	26·52	14·52	73·32
Purneah	707	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	641	[illegible]	614	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30·84	[illegible]	[illegible]	70·20
Maldah	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	251	[illegible]	[illegible]	[illegible]	[illegible]	47·70	[illegible]	[illegible]	[illegible]	14·16	[illegible]	48·60	102·12
Sonthal Pergunnahs	[illegible]	[illegible]	141	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7·70	5·72	[illegible]	9·72	10·32	12·48	27·96	29·52
Cuttack	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	212	[illegible]	[illegible]	[illegible]	16·44	5·88	[illegible]	11·88	[illegible]	14·28	15·96	29·88	78·24
Puri	[illegible]	[illegible]	[illegible]	42	5	104	[illegible]	[illegible]	207	[illegible]	[illegible]	[illegible]	[illegible]	5·52	9·84	[illegible]	12·12	[illegible]	[illegible]	92·52
Balasore	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25·92	[illegible]	5·52	[illegible]	12·12	[illegible]	22·32	[illegible]	96·48
Hazaribagh	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30·72	18·24	18·00	[illegible]	[illegible]	20·28	32·04	65·64	137·64
Lohardugga	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	271	[illegible]	[illegible]	[illegible]	[illegible]	12·84	[illegible]	[illegible]	[illegible]	[illegible]	24·84	48·36	81·60
Singbhoom	[illegible]	[illegible]	[illegible]	11	[illegible]	43	70	91	117	[illegible]	144·12	25·80	14·52	[illegible]	11·88	[illegible]	13·08	28·80	62·40	67·68
Manbhoom	[illegible]	170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	154	[illegible]	[illegible]	[illegible]	[illegible]	11·64	11·40	14·76	11·88	15·12	18·36	33·96	61·68
TOTAL FOR THE PROVINCE	27,[illegible]	[illegible]	13,17[illegible]	[illegible]	[illegible]	17,776	16,979	14,993	13,224	21,509	215·64	32·28	15·96	13·08	19·20	19·30	21·38	28·08	40·80	78·96

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 23rd February 1889.

W. H. GREGG, *Dy. Publ Health, Camb.,*

Sanitary Commissioner for Bengal.

MEMORANDUM.

During the week ending 9th February 1889, the principal Municipalities in Bengal returned a birth and death-rate of 21·9 and 23·9 per 1 000 of population, respectively, against 21· and 22·8 per 1,000 in the preceding week ending 2nd February, indicating an improvement in the registration of both events.

2. The following Municipalities returned the highest proportions of births and deaths :—

Births.

	Ratio per mille.
Durbhanga	40·1
Monghyr	38 0
Jessore	36 7
Purneah	34 6
Rampore Beauleah	34 2
Puri	31·5
Comillah	30 8
Bhagulpore	29·9

Deaths.

	Ratio per mille.
Darjiling	45·6
Suburbs of Calcutta	45·1
Serampore	41·2
Purneah	38 1
Bali	31·6
Rampore Beauleah	31·5

3. The mortality from the undermentioned diseases stood as follows in contrast with similar information for the preceding week :—

	Ratio per mille during the weeks ending— 9th Feb. 1889.	2nd Feb. 1889.
Cholera	2·8	3·3
Small-pox	·2	·3
Fever	9 5	8 7
Bowel-complaints	2 9	4 0
Injury	·5	·5
Other causes	8 0	6 0

It will be seen that there was a comparatively large increase in the death-rates from Fever and "Other causes," and a sensible decrease in the mortality recorded under the head Bowel-complaints.

4. The Municipalities noted below returned the highest death-rates from Cholera, Fever, and the maladies coming under the head of "Other causes." The other diseases mentioned in the foregoing table exhibiting no special severity anywhere :—

Cholera.

	Ratio per mille.
Bali ..	17·5
Suburbs of Calcutta ...	9 5
Howrah ...	6·7

Fevers.

	Ratio per mille.
Darjiling	39 1
Rampore Beauleah ...	21·0
Purneah ..	20·8

Other causes.

	Ratio per mille.
Serampore	21·6
Naraingunj	16·6
Bhagulpore	16·3
Purneah ...	13 9
Suburbs of Calcutta ...	12 4
Midnapore	10 8
Rampore Beauleah ...	10 5
Kishnaghur	9 4
Howrah	9 2

5. The mortality of the week classified under the heads of *Sex*, *Class* and *Age* stood as follows:—

According to Sex.

	Ratio per mille.
Males	26·3
Females	21 1
Ratio of male deaths to every 100 female deaths	140

According to Class.

	Ratio per mille.
Christians	30·4
Hindus	23 3
Mahomedans ...	25·2

According to Age.

	Ratio per mille.
Under 1 year ...	159·5
1 and under 5 years ...	30·3
5 " 10 " ...	8·7
10 " 15 " ...	10·9
15 " 20 " ...	13·1
20 " 30 " ...	17·3
30 " 40 " ...	19 6
40 " 50 " ...	22·4
50 " 60 " ...	22·9
60 years and upwards ...	59 4

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 25th February 1889.

1	2	3			4			5			6	7							8							9	10		11		12
												MORTALITY ACCORDING TO—																			
		POPULATION.			BIRTHS.							Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,117	34,080	5	10	15	7 6	15 3	22·9	50	..	..	10	2	•	3	15	...	.	15 3	3 0	...	4·6	22 9	19 8	8	7	23 0	22 7	114
Midnapore... ...	Midnapore	16,927	16,633	33,560	10	4	14	15 5	6·2	21 7	250	1	.	4	1 •	1	7	14	1 5	..	6 2	1 5	1 5	10 8	21·7	21·7	7	7	21·5	21·9	100
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	8	6	14	10 7	8 1	18 8	133	..	...	7	3 •		.	10	...	...	9 4	4 0	.	...	13 4	25 5	3	7	8 1	18 6	43
Serampore ...	Serampore	13,559	12,937	26,496	6	8	14	11 8	15 7	27 5	75	1	..	4	5		11	21	1 9	...	7·9	9 8	...	21 6	41 2	37·3	13	8	49 9	32·2	163
	Utterpara	3,046	2,464	5,510	2	1	3	18 9	9 4	28 3	200	.	..	...	...	...	1	1	...	...	...	.	•...	9 4	9 4	• 9·4	1	...	17·1	...	No female death.
Howrah ...	Howrah	53,153	37,660	90,813	26	20	46	14 9	11·4	26 3	130	10	1	14	6	1	16	48	5 7	·6	8·0	3·4	·6	9 2	27 5	29·8	28	20	27 4	27·6	140
	Bali	7,836	6,979	14,815	3	4	7	10 5	14 0	24 6	75	5	..	1	2	...	1	9	17 5	...	5·5	7 0	...	3·5	31·6	24 6	6	3	39·8	22 4	200
24-Pergunnahs ...	Suburbs of Calcutta ..	147,205	104,234	251,439	51	46	97	10 5	9 5	20·1	110	46	1	74	33	4	60	218	9 5	·2	15 3	6 8	·8	12 4	45 1	48 6	144	74	50 9	36·9	194
Nuddea ...	Kishnaghur	13,263	14,214	27,477	4	5	9	7 6	9 4	17 0	80	...	...	1	..	1	5	7		...	1·9	...	1 9	9 4	13 2	9·5	3	4	11·8	14 6	75
	Ranaghat	4,028	4,655	8,683	2	...	2	12·0	..	12 0	No female birth	..	...	1	...	..	.	1		..	6 0	...	..	...	6·0	...	...	1	..	11·2	No male death.
	Santipore	13,708	15,979	29,687	4	4	8	7 0	7 0	14 0	100		...	3	.	.	.	3	.	..	5 3	.	..	..	5 3	12 3	2	1	7·6	3 3	200
Jessore	Jessore	4,830	3,665	8,495	3	3	6	18 3	18 3	36 7	100		...	3	..	.	1	4		...	18 3	.	.	6·1	24 5	6 1	2	2	21 5	28 4	100
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	7	6	13	18 4	15 8	34 2	116	.	..	8		..	4	12		...	21 0	...	.	10 5	31 5	18 4	5	7	24·2	40·3	71
Darjiling	Darjiling*	5,029	2,947	7,976	...	..	..		.	.	......	.	...	6	.	.	1	7	...	...	39 1	...	...	6 5	45 6	45 6	3	4	51·0	70 6	75
Dacca ...	Dacca	42,782	37,379	80,161	12	20	32	7 8	13 0	20·8	60	3	1	10	3	1	13	31	1 9	·6	6 5	1·9	·6	5 4	20·1	16 9	25	6	30·4	8 3	416
	Narainganj	7,605	4,956	12,561	1	1	2	4 1	4 1	8 3	100	1	...	.	...	...	4	5	4 1	..	...	...	.	16 6	20 7	33 1	5		34·2	..	No female death.
Chittagong ...	Chittagong	13,340	8,790	22,130	.	2	2		4 7	4 7	No male birth	..	..	4	1	.	1	6	...	...	9 4	2 3	...	2·3	14 1	4·7	2	4	7 8	23 7	50
Tipperah	Comillah	8,153	5,353	13,506	3	5	8	11 6	19 2	30 8	60		...	1		1	2	4	.	...	3 8	• .	3·8	7 7	15 4	23 1	2	• 2	12 8	19 4	100
Patna	Patna City	78,762	81,475	160,237	22	19	41	7 1	6 2	13 3	115	1	1	18	6	1	14	41	·3	·3	5 8	1·9	·3	4 5	13 3	10 4	21	20	13 9	12·8	105
Gya	Gya	38,290	37,831	76,121	12	22	34	8 2	15 0	23 2	54	2	..	26	...		12	40	1·4	...	17·7	...	...	8 2	27 3	20 5	14	26	19 0	35 7	53
Shahabad	Arrah	20,960	22,505	43,465	2	2	4	2 4	2 4	4 8	100	...		2	1	...		3	..	...	2 4	1·2	...	...	3 6	4·8	2	1	5·0	2·3	• 200
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	4	6	10	4 9	7·3	12 2	66	...	...	2	2	2	3	9	...	.	2 4	2 4	2 4	3·7	10 9	9 7	5	4	11 3	10 6	125
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	26	25	51	20 4	19 7	40 1	104	...		14	1		7	22	...	.	11 0	·8	.	5 5	17 3	12 6	14	8	21 6	12 9	175
Sarun	Chupra	26,044	27,205	53,249	11	13	24	10 7	12 7	23 4	84	..		1	2	1	6	10	..	...	1 0	1 9	1·0	5 9	9 8	11 7	5	5	10·0	9 6	100
Bhagulpore... ..	Bhagulpore	29,640	27,813	57,453	18	15	33	16 3	13 6	29 9	120	..	...	6	3	...	18	27	...	...	5 4	2 7	...	16 3	24 4	14 5	15	12	26·3	22 4	125
Monghyr	Monghyr	28,154	29,366	57,520	25	17	42	22 6	15 4	38 0	147	...	..	9	.		8	17	...	..	8 1	..	...	7 2	15·4	12 7	10	7	15 5	12·4	143
Purneah	Purneah	8,463	6,553	15,016	7	3	10	24 2	10 4	34 6	233	..	...	6	1	...	4	11	..	.	20 8	3 4	..	13 9	38 1	24 2	5	6	30·7	47 6	83
Puri	Puri	13,247	11,537	24 784	7	8	15	14 7	16 8	31 5	87		1	6	1	.	3	11		2 1	12 6	2 1	..	6 3	23 1	27 3	5	6	19 6	27·0	83
	Total ..	702,890	619,691	1,322 581	281	275	556	11 0	10 8	21 9	104	70	5	241	73	13	205	607	2 8	·2	9 5	2 9	·5	8 0	23 9	22 5	355	252	26 3	21 1	140

* A special census of the Europeans in the Darjiling Municipality was recently taken as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the na[illegible] remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS.	NAMES OF MUNICIPALITIES	13 Mortality according to Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14 Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	15 Mortality according to Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16 Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan ...	..	13	2	..	...	...	25·5	10·1			2	.	1	.	...	4	2	5	1	.	157·6	..	22·3	...	...	26·3	15·1	55·9	21·2	......
Midnapore	Midnapore ...	.	9	5	...	...	.	18·0	36·0	..	...		2	...	..	2	3	1	5	...	1	...	41·2	..	...	32·9	21·2	9·4	69·8	..	28·4
Hughli	Hughli and Chinsurah	.	8	2	..	.	...	13·1	15·2	.	.	..	1	.		.	3	4	1	1			19·5		..	.	20·3	29·7	10·1	15·9	.....
Serampore ...	Serampore ...	...	19	2	.	...	..	39·2	110·9	...	.	4	6	2		.	1	2	2	2	2	223·0	172·9	4·4	......		9·7	20·9	30·8	54·3	74·8
	Utterpara ...	...	1	...	..	..	.	9·8	.	...	...	.	.		.			1	...	...	.	...	.	.	.	.	.	49·0	.	......	.....
Howrah ...	Howrah ...	.	35	13	.	.	.	26·7	33·0	.	..	9	7	1	3	1	5	9	2	5	6	226·9	65·7	8·3	23·7	7·1	11·5	24·3	8·8	47·1	83·2
	Bali ...	...	8	1	...	..	...	31·0	39·7		..	1	2			1	1	1	3	..	.	143·6	54·1	..	.	39·0	15·5	18·6	80·6	...	....
24-Pergunnahs ...	Suburbs of Calcutta ...	6	138	74	...	...	77·1	47·9	59·8	..	..	30	24	5	6	14	38	36	26	12	27	337·4	77·2	13·1	17·4	40·4	34·0	36·4	39·8	36·8	98·6
Nuddea ...	Kishnaghur ...	.	5	2	...	...	...	14·0	12·6	..	..	2		..	...	...	2	..	..	...	3	239·7	.		...	..	21·6	...	......	...	90·3
	Ranaghat ...	...	1	.	...	...	.	7·1	...	.	...	...	..		.	.	.	1	...	...	..	.		..	..	..	..	41·7	...	.	....
	Santipore ...	...	1	2	...	...	...	2·5	11·6	...	...	1	.	..	..	..		...	1	1	.	61·5	......	.....	...	.	....	..	14·8	22·6	...
Jessore ...	Jessore ...	...	1	3	...	...	...	11·5	49·8	..	...	2	..	...	..	...		1	1	...		536·1	..	..	....	....	..	34·0	49·5	.....	.....
Rajshahye ...	Rampore Beauleah ...	...	7	5	...	...	..	36·7	26·5	.	...	3		...	1	2	3	...	2	...	1	384·2	.....		28·9	62·6	37·5	.	42·4	......	54·0
Darjiling ...	Darjiling ...	...	7	...	.	...	.	79·3	...	..	...	..	4	...	1	...	..	.	1	.	1	...	323·5	..	103·8	.	...	.....	75·1	......	307·7
Dacca ...	Dacca ...		15	16	...	...	...	19·4	21·2	.		4	5	1	3	.	8	4	2	2	2	109·6	35·3	5·2	19·6	..	27·2	17·8	12·4	22·0	18·7
	Narainganj ...	.	5		..	...	...	41·1	.	..		...	...	...	...	..	1		1	2	1		...	...	......	.	19·5	..	37·3	132·8	79·8
Chittagong ...	Chittagong ...	1	1	4	...	...	65·3	9·0	13·6	.	...	1	2	..	..	.	1	1	...	1		92·4	52·9	...	...	...	11·2	15·6	....	47·9	......
Tipperah ...	Comillah ...	..	1	3	...	...	...	8·7	21·1	..	...	2		.	..	.	1	...	...	1	...	350·2	.	.....	....	..	18·8	......	.....	64·9	.....
Patna ...	Patna City ...	...	24	17	...	...	...	10·5	21·6	.	..	6	2	1	3	1	6	5	4	3	10	72·4	7·1	3·1	10·8	4·7	10·8	11·2	11·0	11·0	37·7
Gya ...	Gya ...	...	32	8	...	..	..	27·7	25·9	...	...	6	4	5	...	2	5	3	2	3	10	174·3	32·7	37·2	.....	19·9	17·7	12·3	10·6	23·7	101·0
Shahabad ...	Arrah ...	...	3	..	...	...	...	3·0	...	...	...	..	...	...	.	.			1	2	...	...	..	..	....	.....	......	.....	11·1	33·6	.....
Mozufferpore ...	Mozufferpore ...	...	7	2	...	...	...	12·1	8·3	..	..	.		1	2		...	2	.	.	4	....	...	11·6	26·3	...	....	14·9	.....	.....	85·5
Durbhanga ...	Durbhanga ...	..	17	5	...	...	...	18·3	14·8	.	...	5	3	2	1	1	...	3	3	2	2	167·0	20·5	13·3	9·4	12·9	....	14·0	21·0	23·7	[illegible]
Sarun ...	Chupra ...	...	6	4	...	...	...	7·6	17·3	...	..	1	.	..	..	1	1	1	1	..	5	36·9	....	...	...	14·6	5·5	6·4	8·3	......	74·7
Bhagulpore ...	Bhagulpore ...	...	16	11	...	...	...	20·9	32·2	..	..	3	1	2	3	...	3	4	2	1	8	130·7	9·6	17·7	24·8	.....	14·3	22·4	16·2	12·2	115·5
Monghyr ...	Monghyr ...	...	13	4	...	...	...	15·1	16·5	...	..	5		1	..	.	3	1	1	1	5	175·1	..	7·4	.....		15·1	5·8	8·2	13·1	73·5
Purneah ...	Purneah ...	..	6	5	...	...	...	34·0	45·9	..	...	4	1	...	.	...	1	3		1	1	735·0	43·0	..	.....	....	15·8	54·7	.....	55·5	64·4
Puri ...	Puri ...	...	11	...	...	...	...	23·3	...	..	.	2	..		1		.	1	3	1	3	343·2	.....	......	27·7	......	......	12·8	46·9	23·3	86·4
	TOTAL ...	7	410	190	...	...	30·4	23·3	25·2	...	.	93	64	22	24	25	90	84	69	42	92	155·5	30·3	8·7	10·9	13·1	17·3	19·6	22·4	22·9	59·4

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of December 1888.

ORISSA CIRCLE.

TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 27 MILES. MACHGONG ,, 4 ,,

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
5	1. Grain ...	......	44	44	1,974	44	1,974	
...	2. Cotton ...	...	......	......	......	......	......	
...	3. Oilseeds ...	......	...	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
53	7. Building materials	......	996	996	1,799	97	219	
...	8. Miscellaneous ...	......	......	......	......	......	......	
...	9. Fuel ...	......	......	......	......	......	......	
6 rafts.	10. Timber .	......	76 No	76 No.	150	76 No.	150	
36 rafts.	11. Bamboos	......	32,800 ,,	32,800 ,,	403	32,800 ,,	403	
58 & 42 rafts.	12. Total ...	......	1,040 & 32,876 No.	1,040 & 32,876 No.	4,326	141 & 32,876 No.	2,716	
133 & 9 rafts.	13. Total of same month last year.	......	1,788 & 8,600 No.	1,788 & 8,600 No.	5,032	653 & 8,600 No.	3,632	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	......	58	58
15. Total number of boats plying passenger No.	15	9	24
15½. Total number of empty boats No.	67	24	91
16. Total registered tonnage, cargo Tons	682	1,722	2,404
17. Total registered tonnage, passenger Tons	377	340	717
18. Ton-mileage ...	9,315	27,530	36,845
19. Estimated value of cargo Rs.	......	3,773	3,773
20. Number of passengers No.	460	73	533
21. Rafts, bamboos ,,	......	32,800	32,800
22. Do., bullahs ,,	......	76	76
23. Estimated value of rafts Rs.	......	553	553
24. Tollage on boats ,,	94-3-0	288-13-0	383-0-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts ,,	......	30-12-9	30-12-9
27. Total tollage on boats per ton-mile Rs.	......	......	2-0-0
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	413	12	9
Total tollage of same month last year ...	800	1	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month .	23	1	0
2. Tollage per month ...	413	12	9
3. Total ...	436	13	9
4. Amount credited in the accounts of the month ...	341	9	0
5. Balance due at the end of the month ...	95	4	9

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
96	1. Grain ...	343	362	705	39,540	705	39,540	
4	2. Cotton ...	......	20	20	5,700	20	5,700	
...	3. Oilseeds ...	...	......	......	......	......	..	
23	4. Salt ...	46	62	108	9,090	108	9,090	
...	5. Piece-goods ...	......	......	......	......	......	.. ..	
...	6. Metal ..	......	.....	......	......	.....	......	
48	7. Building materials	......	794	794	15,900	589	13,830	
192	8. Miscellaneous ...	502	769	1,271	2,30,100	1,271	2,30,100	
5	9. Fuel ...	24	...	24	70	24	70	
17 rafts.	10. Timber .	...	2,269 No.	2,269 No.	3,130	2,269 No.	3,130	
11 „	11. Bamboos ...	......	49,950 „	49,950 „	530	49,950 „	530	
368 & 18 rafts.	12. Total ...	915	2,007 & 52,219 No.	2,922 & 52,219 No.	3,04,060	2,717 & 52,219 No	3,01,990	
410 & 18 rafts.	13. Total of same month last year	1,785	1,450 16,382 No.	3,235 & 16,382 No.	2,99,510	2,439 & 16,382 No.	2,96,930	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	153	215	368
15. Total number of boats plying passenger No	53	54	107
15½. Total number of empty boats No.	197	177	374
16. Total registered tonnage, cargo Tons	1,193	4,098	5,091
17. Total registered tonnage, passenger Tons	1,231	1,244	2,475
17½. Total registered tonnage, empty boats Tons	1,526	841	2,367
18. Ton-mileage ...	136,882	161,041	297,923
19. Estimated value of cargo Rs.	1,42,070	1,58,330	3,00,400
20. Number of passengers No	1,701	2,447	4,188
21. Rafts, bamboos „	.. ...	49,950	49,950
22. Do., timbers „	......	2,269	2,269
23. Estimated value of rafts Rs.	......	3,660	3,660
24. Tollage on boats „	2,167-7-8	2,596-3-1	4,763-10-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	...	168-7-8	168-7-8
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3 1
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	4,932	2	5
Total tollage of same month last year ...	4,763	3	11

Memorandum of Tollage.

	Rs.	A	P.
1. Balance not recovered on the 1st of the month ...	5,417	0	0
2. Tollage per month ...	4,932	2	5
3. Total ...	10,349	2	5
4. Amount credited in the accounts of the month ...	5,453	7	3
5. Balance due at the end of the month ...	4,895	11	2

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
65	1. Grain ...	185	.....	185	14,030	185	14,030	
...	2. Cotton ...	......	......	......	......	......	......	
3	3. Oilseeds ...	11	......	11	900	11	900	
36	4. Salt ...	......	99	99	8,310	99	8,310	
...	5. Piece-goods	......	......	......	......	......		
...	6. Metal	......	......	......	......	.....	......	
5	7. Building materials	1	43	44	50	1	10	
51	8. Miscellaneous ...	26	54	80	10,670	80	10,670	
11	9. Fuel ...	54	......	54	250	54	250	
7 rafts.	10. Timber ..	1,526 No.	......	1,526 No.	2,500	1,526 No.	2,500	
...	11. Bamboos ...	....	......	....	......	......	......	
171 & 7 rafts.	12. Total ...	277 & 1,526 No.	196	473 & 1,526 No.	36,710	430 & 1,526 No.	36,670	
216 & 12 rafts.	13. Total of same month last year ...	697 3,426 No.	276 1,200 No.	973 & 4,626 No	62,260	973 & 4,626 No.	62,260	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	102	69	171
15. Total number of boats plying passenger No	4	8	12
15½. Total number of empty boats No.	50	140	190
16. Total registered tonnage, cargo Tons	573	456	1,029
17. Total registered tonnage, passenger Tons	30	41	71
17½. Total registered tonnage, empty boats Tons	141	475	616
18. Ton-mileage ...	12,969	16,377	29,346
19. Estimated value of cargo Rs.	16,930	17,280	34,210
20. Number of passengers No.	22	30	52
21. Rafts, bamboos „	......	......	......
22. Do., timber „	1,526	......	1,526
23. Estimated value of rafts Rs.	2,500	......	2,500
24 Tollage on boats „	189-3-6	170-9-3	359-12-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	86-1-3	......	86-1-3
27. Total tollage on boats per ton-mile Rs.	......	...	0-0-2·4
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	5-10-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	445	14	0
Total tollage of same month last year	875	4	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	334	15	10
2. Tollage per month ...	445	14	0
3. Total ...	780	13	10
4. Amount credited in the accounts of the month	583	4	1
5. Balance due at the end of the month ...	197	9	9

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
31	1. Grain ...	99	5	104	4,652	104	4,652	
...	2. Cotton ...	......	... ..	... ..		......	....	
5	3. Oilseeds ..	 2	10	12	1,100	12	1,100	
9	4. Salt ...	... ..	46	46	6,490	46	6,490	
7	5. Piece-goods ...	......	9	9	2,790	9	2,790	
.....	6. Metal .	......	......	......	......	......	...	
8	7. Building materials	......	69½	69½	107	62½	55	
4	8. Miscellaneous ...	4½	2½	7	1,010	7	1,010	
4	9. Fuel ...	......	27	27	78	27	78	
8 rafts.	10. Timber ...	96 c. ft.	3,738 c. ft	3,834 c. ft.	1,893	3,834 c. ft.	1,893	
.. ...	11. Bamboos ...	......	......	.. ...	......	......	......	
68 & 8 rafts.	12. Total ...	105½ & 96 c. ft.	169 & 3,738 c. ft.	274½ & 3,834 c. ft.	18,120	267½ & 3,834 c.ft.	18,068	
92 & 19 rafts.	13. Total of same month last year.	123	224 9,452 No.	347 & 9,452 No.	26,860	229½ & 9,452 No.	26,312	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	32	36	68
15. Total number of boats plying passenger No.	... ..	1	1
15½. Total number of empty boats No.	28	39	67
16. Total registered tonnage of cargo and empty boats Tons	199	271	470
17. Total registered tonnage, passenger Tons	......	2	2
18 Ton-mileage	3,784	4,614	8,398
19. Estimated value of cargo Rs.	4,560	11,667	16,227
20. Number of passengers No.	141	125	266
21. Rafts, bamboos „	......	......	......
22. Do., bullahs „	96	3,738	3,834
23. Estimated value of rafts Rs.	24	1,869	1,893
24. Tollage on boats „	46-10-3	69-0-6	115-10-9
25. Compounded tollage on boats Rs.	......	.....	......
26. Tollage on rafts „	0-12-0	33-6-9	34-2-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·64
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-14-3

	Rs. A. P.
Total tollage of month—24+25+26 ...	149 13 6
Total tollage of same month last year ...	170 10 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	......
2. Tollage per month ...	149 13 6
3. Total ...	149 13 6
4. Amount credited in the accounts of the month ...	149 13 6
5. Balance due at the end of the month ...	......

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
17	1. Grain ...	48	4	52	2,911	52	2,911	
...	2. Cotton ...	......	......	......	......	......	......	
1	3. Oilseeds ...	......	1½	1½	138	1½	138	
3	4. Salt ...	4	6	10	1,148	10	1,148	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
1	7. Building materials	......	10	10	35	......	......	
2	8. Miscellaneous ...	......	4½	4½	100	4½	100	
...	9. Fuel ...	......	...	... ..	......	......	......	
3 rafts.	10. Timber ...	......	330 c. ft.	330 c. ft.	111	330 c. ft.	111	
...	11. Bamboos ...	......	......	......	......	......	......	
24 & 3 rafts.	12. Total ...	52	26 & 330 c. ft.	78 & 330 c. ft.	4,443	68 & 330 c. ft.	4,408	
35 & 7 rafts.	13. Total of same month last year.	51½	124 & 88 No.	175½ & 88 No.	8,795	91 & 88 No	8,406	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	17	7	24
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	8	20	28
16. Total registered tonnage of cargo & empty boats Tons	82	73	155
17. Total registered tonnage, passenger Tons	......	......	......
18. Ton-mileage ...	1,584	1,062	2,646
19. Estimated value of cargo Rs.	2,791	1,541	4,332
20. Number of passengers No.	123½	71	194½
21. Rafts, bamboos c. ft.	......	......	......
22. Do., bullahs "	......	330	330
23. Estimated value of rafts Rs.	......	111	111
24. Tollage on boats "	22-10-3	13-0-6	35-10-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	2-8-9	2-8-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·25
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-12-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	38	3	6
Total tollage of same month last year	82	1	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	38	3	6
3. Total ...	38	3	6
4. Amount credited in the accounts of the month ...	38	3	6
5. Balance due at the end of the month ...	......		

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
...	1. Grain ...	......	......	......	......	......	......	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	...	......	......	......	
...	4. Salt ...	......	......	......	...	......	......	
1	5. Piece-goods ...	1	......	1	310	1	310	
...	6. Metal ...	......	......	......	......	......	...	
2	7. Building materials	13	......	13	178	13	178	
5	8. Miscellaneous ...	2	......	2	200	2	200	
...	9. Fuel ...	...	......	......	..	...	......	
12 rafts	10. Timber ...	1,890 c. ft.	......	1,890 c ft.	292	1,890 c. ft.	292	
...	11. Bamboos	...	......	..	......	......	...	
8 & 12 rafts.	12. Total ...	16 & 1,890 c.ft.	3	16 & 1,890c ft	980	16 & 1,890 c ft	980	
...	13. Total of same month last year	.....	......	......	.....	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	8	......	8
15. Total number of boats plying passenger No.	......	...	......
15½. Total number of empty boats No.	4	10	14
16. Total registered tonnage of cargo & empty boats Tons	20	......	20
17. Total registered tonnage, passenger Tons	.....	......	...
18. Ton-mileage ...	216	......	216
19. Estimated value of cargo Rs	688	......	688
20. Number of passengers No.	......	......	......
21. Rafts, bamboos c.ft.	......	......	......
22. Do., bullahs „	1,890	.....	1,890
23. Estimated value of rafts Rs.	292	......	292
24. Tollage on boats „	3-4-0	0-15-0	4-3-0
25. Compounded tollage on boats ... Rs.	....	..	.....
26. Tollage on rafts „	5-4-11	.....	5 4-11
27. Total tollage on boats per ton-mile Rs	......	......	0-0 3 72
28. Total tollage on rafts per 100 cubic feet Rs.		......	0-4-5

	Rs. A. P.
Total tollage of month—24 + 25 + 26 .	9 7 11
Total tollage of same month last year	......

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	......
2. Tollage per month ..	9 7 11
3. Total ...	9 7 11
4. Amount credited in the accounts of the month ...	9 7 11
5. Balance due at the end of the month ...	......

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,230	1. Grain ...	5,884	354	6,238	2,65,911	6,238	2,65,911	
1	2. Cotton ...	......	11	11	5,300	11	5,300	
15	3. Oilseeds ...	49	93	142	14,136	142	14,136	
94	4. Salt ...	......	699	699	71,015	699	71,015	
...	5. Piece-goods ...	......	49	49	1,49,000	49	1,49,000	
...	6. Metal	2	9	11	4,455	11	4,455	
28	7. Building materials	254	5	259	1,515	259	1,515	
264	8. Miscellaneous ...	607	545	1,152	5,49,391	1,152	5,49,391	
26	9. Fuel ...	88	245	333	4,857	333	4,857	
87 rafts.	10. Timber ...	27,501 c. ft.	28 c. ft.	27,529 c. ft.	10,790	27,5[illegible]9 c. ft.	10,790	
2 „	11. Bamboos ...	2,300 „	......	2,300 „	115	2,300 „	115	
1,658 & 89 rafts.	12. Total ...	6,884 & 29,801 c. ft.	2,010 & 28 c. ft.	8,894 & 29,829 c. ft.	10,76,485	8,894 & 29,829 c. ft.	10,76,485	
1,505 & 108 rafts.	13. Total of same month last year.	8,767 & 28,183 c. ft.	1,901 & 778 c. ft.	10,668 & 28,961 c. ft.	8,57,325	10,668 & 28,961 c. ft.	8,57,325	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,355	303	1,658
15. Total number of boats plying passenger No.	486	614	1,100
15½. Total number of empty boats No.	681	1,015	1,696
16. Total registered tonnage, cargo Tons	17,596	4,467	22,063
17. Total registered tonnage, passenger Tons	2,918	3,595	6,543
17½. Total registered tonnage, empty boats Tons	2,954	4,070	7,024
18. Ton-mileage	5,62,059	2,64,394	8,26,453
19. Estimated value of cargo Rs.	5,36,064	5,29,516	10,65,580
20. Number of passengers No.	4,759	7,905	12,664
21. Rafts, bamboos c. ft.	2,300	......	2,300
22. Do., bullahs „	27,501	28	27,529
23. Estimated value of rafts Rs.	10,815	90	10,905
24. Tollage on boats „	8,742-8-3	4,151-5-3	12,893-13-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	378-0-3	0-2-6	378-2-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-4-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	13,272	0	3
Total tollage of same month last year .	11,399	2	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	4,995	5	10
2. Tollage per month ...	13,272	0	3
3. Total ..	18,267	6	1
4. Amount paid into Treasury during the month	10,707	3	9
5. Balance due at the end of the month ...	7,560	2	4*

* Includes toll due by Calcutta Steam Navigation Company for October and November 1888, paid in January 1889, and also toll for December 1888 not yet paid.

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
445	1. Grain ...	1,962	6	1,968	95,500	1,968	95,500	
...	2. Cotton ...	.	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	...	......	
11	4. Salt ...	......	111	111	11,275	111	11,275	
1	5. Piece-goods ...	......	9	9	6,250	9	6,250	
1	6. Metal ..	......	3	3	500	3	500	
13	7. Building materials	32	47	79	190	77	175	
702	8. Miscellaneous ...	471	276	747	67,785	747	67,785	
14	9. Fuel ...	58	48	106	958	88	798	
13 rafts	10. Timber ...	521 c.ft	5,674 c ft.	6,195 c. ft.	4,126	6,195 c.ft.	4,126	
3 "	11. Bamboos ...	75 "	1,300 "	1,375 "	165	1,375 "	165	
1,187 & 16 rafts.	12. Total ...	2,523 & 596 c. ft.	500 & 6,974 c. ft.	3,023 & 7,570 c. ft.	1,86,749	3,003 & 7,570 c. ft.	1,86,574	
1,835 & 7 rafts.	13. Total of same month last year	3,905 & 608 c ft.	610 & 385 c. ft.	4,515 & 993 c. ft.	2,81,784	4,508 & 993 c.ft.	2,80,184	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	617	570	1,187
15. Total number of boats plying passenger No.	45	52	97
16. Total registered tonnage, cargo Tons	5,482	2,663	8,145
17. Total registered tonnage, passenger Tons	442	468	910
18. Ton-mileage	84,572	47,933	1,32,505
19. Estimated value of cargo Rs.	1,18,521	63,937	1,82,458
20. Number of passengers No.	1,132	1,431	2,563
21. Rafts, bamboos c. ft.	75	1,300	1,375
22. Do., bullahs "	521	5,674	6,195
23. Estimated value of rafts Rs.	583	3,708	4,291
24. Tollage on boats "	1,478-11-3	835-6-9	2,314-2-0
25. Compounded tollage on boats Rs.	1-0-0	12-0-0	13-0-0
26. Tollage on rafts "	6-0-6	38-1-C	44-1-6
27 Total tollage on boats per ton-mile Rs	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-9-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,371	3	6
Total tollage of same month last year	3,088	4	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,089	3	9
2. Tollage per month ...	2,371	3	6
3. Total ...	3,460	7	3
4. Amount paid into Treasury during the month	2,232	15	6
5. Balance due at the end of the month ...	1,227	7	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
...	1. Grain ...	......	......	......	10	......	10	
...	2. Cotton ...	......	......	......	......	......	......	
7	3. Oilseeds ...	2	61	63	5,059	63	5,059	
4	4. Salt ...	85	......	85	6,596	85	6,596	
24	5. Piece-goods ...	165	1	166	30,200	166	30,200	
...	6. Metal ...	2	1	3	2,330	3	2,330	
13	7. Building materials	15	152	167	1,080	161	1,060	
91	8. Miscellaneous ...	77	642	719	57,448	329	56,891	
1	9. Fuel ... Boats	......	46	46	390	46	390	
	9. Fuel ... Rafts	4	......	4	25	4	25	
...	10. Timber Rafts	......	20	20	155	20	155	
6	11. Bamboos Boats	49	......	49	750	49	750	
	11. Bamboos Rafts	22	228	250	4,295	250	4,295	
146	12. Total ...	421	1,151	1,572	1,08,338	1,176	1,07,761	
235	13. Total of same month last year.	384	2,363	2,747	1,37,492	2,051	1,36,640	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	50	96	146
15. Total number of boats plying passenger No.	4	5	9
15½. Total number of empty boats No.	69	21	90
16. Total registered tonnage, cargo Tons	685	1,368	2,053
17. Total registered tonnage, passenger Tons	108	135	243
17½. Total registered tonnage, empty boats Tons	371	98	469
18. Ton-mileage ...	51,288	1,13,801	1,65,089
19. Estimated value of cargo Rs.	44,025	59,473	1,03,498
20. Number of passengers No.	274	322½	596½
21. Rafts, bamboos c. ft.	3,250	34,262	37,512
22. Do., bullahs "	.....	4,984	4,984
23. Estimated value of rafts Rs.	707	4,133	4,840
24. Tollage on boats "	356-5-0	618-7-9	974-12-9
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts "	1-0-3	196-0-3	197-0-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-7-5

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,321	13	0
Total tollage of same month last year ...	2,149	5	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	311	13	9
2. Tollage per month ...	1,321	13	3
3. Total ...	1,633	11	0
4. Amount credited in the accounts of the month	1,154	11	0
5. Balance due at the end of the month	479	0	0

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
9	1. Grain ...	......	183	183	14,501	183	14,501	
......	2. Cotton ...	3	......	3	4,110	3	4,110	
8	3. Oilseeds ...	1	77	78	6,747	78	6,747	
25	4 Salt ...	319	......	319	34,913	319	34,913	
......	5. Piece-goods ...	24	1	25	34,910	25	34,910	
......	6. Metal ...	1	3	4	37,262	4	37,262	
7	7. Building materials	25	22	47	3,327	29	1,077	
95	8. Miscellaneous ...	88	579	667	17,126	228	16,758	
......	9. Fuel ...	......	......	......	......	......	...	
2	10. Timber ...	3	......	3	199	2	119	
Rafts.	Do. ..	......	4	4	116	4	116	
Rafts	11. Bamboos ...	......	71	71	1,435	71	1,435	
	11. Bullahs .	......	380	380	1,208	380	1,208	
	11. Firewood ...	......	151	151	1,078	151	1,078	
146	12. Total ...	464	1,471	1,935	1,56,932	1,477	1,54,234	
138	13. Total of same month last year.	414	1,635	2,049	95,063	1,706	94,915	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	35	111	146
15. Total number of boats plying passenger No.	......	1	1
15½. Total number of empty boats No.	102	15	117
16. Total registered tonnage, cargo Tons	721	1,622	2,343
17. Total registered tonnage, passenger Tons	65	70	135
17½. Total registered tonnage, empty boats Tons	401	58	459
18. Ton-mileage ...	51,978	72,845	1,24,823
19. Estimated value of cargo Rs.	1,14,811	38,284	1,53,095
20. Number of passengers No.	905	958	1,863
20½ Rafts, timber c. ft.	......	300	300
21. Do., bamboos „	......	10,645	10,645
22. Do., bullahs „	......	28,538	28,538
22½ Do., firewood „	......	11,325	11,325
23. Estimated value of rafts Rs.	......	3,837	3,837
24. Tollage on boats „	271-0-9	497-0-3	768-1-0
25. Compounded tollage on boats Rs.	164-0-0	164-0-0	328-0-0
26. Tollage on rafts „	......	176-1-9	176-1-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·7
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-6

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,272 2 9
Total tollage of same month last year ...	853 15 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	209 12 11
2. Tollage per month ...	1,272 2 9
3. Total ...	1,481 15 8
4. Amount credited in the accounts of the month	1,255 14 11
5. Balance due at the end of the month ...	226 0 9

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees	REMARKS.
19	1. Grain ...	......	305	305	34,044	305	34,044	
...	2. Cotton ...	......	......	......	......	......	......	
5	3. Oilseeds ...	2	75	77	10,404	77	10,404	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	4	......	4	6,730	4	6,730	
...	6. Metal ...	2	......	2	1,555	2	1,555	
11	7. Building materials	13	9	22	586	9	162	
16	8. Miscellaneous ...	23	163	186	10,457	177	10,357	
4	9. Fuel ...	59	......	59	1,100	......	...	
Rafts {	10. Timber ...	......	183	183	2,647	183	2,647	
	11. Bamboos ...	......	54	54	969	54	969	
55	12. Total ...	103	789	892	68,492	811	66,868	
48	13. Total of same month last year	47	948	995	43,368	739	34,168	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	18	37	55
15. Total number of boats plying passenger No.	9	9	18
15½. Total number of empty boats No.	31	23	54
16. Total registered tonnage, cargo Tons	131	967	1,098
17. Total registered tonnage, passenger Tons	243	243	486
17½. Total registered tonnage, empty boats Tons	126	81	207
18. Ton-mileage ...	9,438	22,272	31,710
19. Estimated value of cargo Rs.	12,487	52,389	64,876
20. Number of passengers No.	572	479	1,051
21. Rafts, bamboos c. ft.	......	8,080	8,080
22. Do., bullahs ”	......	13,731	13,731
23. Estimated value of rafts Rs.	......	3,616	3,616
24. Tollage on boats ”	97-2-0	170-7-9	267-9-9
25. Compounded tollage on boats Rs.	75-0-0	107-0-0	182-0-0
26. Tollage on rafts ”	......	69-2-3	69-2-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·72
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-0

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	518 12 0
Total tollage of same month last year ...	597 7 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	36 1 9
2. Tollage per month ...	518 12 0
3. Total ...	554 13 9
4. Amount credited in the accounts of the month ...	530 3 9
5. Balance due at the end of the month ...	24 10 0

ABSTRACT FOR THE MONTH OF DECEMBER 1888 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1888-89. During the month.			Traffic, 1888-89. To end of the month.			Traffic, 1887-88. During the month.			Traffic, 1887-88. To end of the month.			Remarks.
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Circle.													
Taldunda Canal System ...	413	12	9	1,821	13	6	800	1	6	3,653	9	0	
Kendrapara Canal System	4,932	2	5	34,358	5	6	4,763	3	11	30,166	13	0	
High Level, Range I ...	415	14	0	4,270	13	6	875	4	0	4,987	9	6	
Ditto, " II ...	149	13	6	1,754	15	0	170	10	9	2,666	3	0	
Ditto, " III ..	38	3	6	803	7	0	82	1	3	833	12	9	
Jajepore Canal .	9	7	11	57	14	9	......			......			
Total Orissa Circle ...	5,989	6	1	43,067	5	3	6,691	5	5	42,307	15	3	
South-Western Circle.													
Midnapore Canal ...	13,272	0	3	1,01,349	7	9	11,399	2	9	90,287	13	0	
Hidgellee Tidal Canal ...	2,371	3	6	44,701	5	0	3,088	4	6	40,046	14	0	
Total South-Western Circle	15,643	3	9	1,46,050	12	9	14,487	7	3	1,30,334	11	0	
Sone Circle.													
Patna Canal System ...	1,321	13	3	19,370	14	9	2,149	5	6	19,303	7	6	
Arrah ditto ...	1,272	2	9	14,949	2	2	853	15	9	11,301	15	0	
Buxar ditto ...	518	12	0	6,775	11	6	597	7	0	5,551	10	8	
Total Sone Circle ...	3,112	12	0	41,095	12	5	3,600	12	3	36,157	1	2	
Grand Total ...	24,745	5	10	2,30,213	14	5	24,779	8	11	2,08,799	11	5	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1888-89. During the month. Passengers.	Goods.	Total receipts.			Traffic, 1888-89. To end of the month. Passengers.	Goods.	Total receipts.			Traffic, 1887-88. During the month. Passengers.	Goods.	Total receipts.			Traffic, 1887-88. To end of the month. Passengers.	Goods.	Total receipts.		
	No.	Mds.	Rs.	A.	P.	No.	Mds.	Rs.	A.	P.	No.	Mds.	Rs.	A.	P.	No.	Mds.	Rs.	A.	P.
Orissa Circle.																				
High Level	517	759	625	10	10	3,711	2,722	4,127	7	2	196	480	252	15	1	2,699	4,216	3,394	13	6
Total Orissa Circle ...	517	759	625	10	10	3,711	2,722	4,127	7	2	196	480	252	15	1	2,699	4,216	3,394	13	6

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1888-89. During the month.			Earnings, 1888-89. To end of the month.			Earnings, 1887-88. During the month.			Earnings, 1887-88. To end of the month.			Remarks.
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals ...	6,515	0	11	47,194	12	5	6,944	4	6	45,702	12	9	
Midnapore Canal ...	13,272	0	3	1,01,349	7	9	11,399	2	9	90,287	13	0	
Hidgellee Tidal Canal ...	2,371	3	6	44,701	5	0	3,088	4	6	40,046	14	0	
Sone Canals ...	3,112	12	0	41,095	12	5	3,600	12	3	36,157	1	2	
Total ...	25,271	0	8	2,34,341	5	7	25,032	8	0	2,12,194	8	11	

CALCUTTA,

The 25th February 1889.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 23*rd February* 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 23rd February 1889.			Week ending Saturday, the 25th February 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1 065	2,89.857	5,222	1,811	4,41,552	7,487
Jute	135	87,675	1,757	96	62,000	1,139
Firewood	127	76,810	1,209	133	74,600	1,022
Other articles	1,027	2,45,395	3,813	1,069	2,83,195	4,613
Total ...	2,354	6.99,737	12,001	3,109	8,61,347	14,261

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of November 1888 as compared with the same month of the previous year.

STAPLES.	1888.		1887.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1887.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	7,553	2,160	5,044	2,329	9,713	7,373	2,340	...
Cotton, raw	72	74	77	47	146	124	22	..
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	3,216	107	3,088	235	3,383	3,923	......	540
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	1,396	3,406	2,588	1,572	4,802	4,160	642	
5.—Others	852	3,687	861	8,759	4,539	9,620	......	5,081
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	9	478	12	627	487	639	. ...	152
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	......	6,104	......	5,665	6,104	5,665	439	. .
b.—Unscrewed	29	25,514	. ..	45,093	28,543	45,093	.	16,550
2.—Gunny bags and cloth	93	1,325	135	2,036	1,418	2,171		753
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	932	86	1,645	142	1,018	1,787	......	769
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	418	6	382	19	424	401	23	...
3.—Others	143	53	213	32	196	245	.....	49
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	113	1,200	367	608	1,313	975	338	.
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	116	75	87	703	191	790		599
3.—Others	492	189	360	287	681	647	34	..
Railway plant and rolling-stock	2,832	1,306	5,934	1,676	4,138	7,610	.. . .	3,472
Salt	3,202	22	4,173	5	3,224	4,178	...	954
Sugar—								
1.—Drained	503	173	514	8	676	603	73	......
2.—Undrained								
Tea—								
1.—Foreign	6	1,584	.. ...	2,261	1,590	2,261		671
2.—Indian								
Wood—								
1.—Timber	94	76	252	158	170	410		240
2.—Firewood	1,434	3	1,567	31	1,437	1,598	. .	161
Tobacco	39	897	96	1,436	936	1,532	.	596
All other articles of merchandise—								
1.—Unmanufactured	2,720	1,655	2,675	1,699	4,375	4,374	1	.. ..
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections)	498	2	416	. ..	500	416	84	.
Total ...	26,762	53,242	31,086	75,509	80,004	1,06,595	3,906	30,587

Comparative Statement of the principal commodities carried during the month of November 1888.

INCREASES.

	Tons.
Coal	2,340
For Railway and Flotilla purposes, also for Messrs. Burn & Co.	
Rice	642
The increase is principally from the Northern Section, Parbatipur and Dinagepur shewing a very great improvement.	
Oil-seeds	338
A good business done in Calcutta during the week ending 20th November 1888.	

DECREASES.

The decreases under the several heads aggregate 30,587 tons. They are, however, fictitious owing to the fact that the comparison is of the figures for 4 weeks of 1888 as against 5 weeks in 1887.

Calcutta, the 18*th February* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of November 1888, as compared with the same month of the previous year.

STAPLES.	1888.		1887.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1887.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal ...	2,303	10	1,124	..	2,313	1,124	1,189	....
Cotton, raw ...	3	.....	8	4	3	12	...	9
Cotton twist and yarn—								
1.—European ...								
2.—Indian ...								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles ...	274	...	297	2	274	299	......	25
b.—In boxes								
2.—Indian—								
a.—In bales and bundles ...								
b.—In boxes ...								
Grains—								
2.—Rice ...	7	211	3	331	218	334	...	116
5.—Others ...	32	199	34	290	231	324		93
Hides and skins—								
1.—Hides of cattle—								
b.—Undressed ...	.....	17	1	31	17	32	......	15
Jute—								
1.—Raw—								
b.—Unscrewed ...	.....	2,611	...	3,169	2,611	3,169	.	558
2.—Gunny bags and cloth ...	5	...	8	4	5	12	.	7
Metals—								
1.—Copper, unwrought ...								
2.—Brass, unwrought								
3.—Brass and copper, wrought ...								
4.—Iron ...	34	18	192	28	52	220	...	168
5.—Tin ...								
6.—Others ...								
Oils—								
2.—Kerosine ...	80		66	.....	80	66	14	
3.—Others ...	62	...	80	..	62	80		18
Oilseeds—								
1.—Linseed ...								
2.—Rape and mustard ...								
3.—Til or gingelly ...								
4.—Niger ...	58	76	192	21	136	213	...	77
5.—Castor ...								
6.—Poppy ...								
7.—Others ...								
Provisions—								
2.—Betelnuts ...	2	81	2	771	83	773		690
3.—Others ...	14	5	28	106	19	134	.	115
Railway plant and rolling-stock ...	45	36	426	102	81	528		447
Salt ...	163	..	200	....	163	200		37
Sugar—								
1.—Drained ...	14	149	11	71	163	82	81	......
2.—Undrained ...								
Wood—								
1.—Timber ...	10	11	21	10	21	31		10
2.—Firewood								
Tobacco	25	6	27	29	31	56		25
All other articles of merchandise—								
1.—Unmanufactured ...	296	207	488	254	503	722	.	219
2.—Manufactured ...								
Total	3,427	3,639	3,208	5,203	7,066	8,411	1,284	2,6[illegible]9

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of November 1888.

INCREASES.

	Tons
Coal ...	1,189

For railway and Flotilla purposes.

DECREASES.

Rice ...	116

The decreases are principally from Bongong and Khulna, but Singia, Nawapara and Jessore shew small decreases, said to be due to drought.

Jute ...	558

This decrease is due only to the fact that the figures for disproportionate periods are compared, as Khulna during the month shews an increase under this head of over 2,600 tons, and the other stations on the railway also shew considerable improvements.

Metals ...	168

Ordinary fluctuations of traffic.

Betelnuts ...	690

The procedure referred to in the note under jute vitiates this comparison also, but there was a serious falling off in betelnuts from the Bengal Central Flotilla—about 250 tons.

Railway plant, &c. ...	447

Due presumably to the fact that there were less repairs and renewals during the month.

CALCUTTA, *the 18th February* 1889. F. P. QUINLAN, *Examiner of Accounts.*

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of December 1888, as compared with the same month of the previous year.

STAPLES.	1887.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1887.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	303	...	652	...	303	652	259	...
Cotton, raw	22	...	25	...	22	25	3	...
Cotton twist and yarn—								
1.—European	...	...	1	1	...	2	2	...
2.—Indian	1	...	...	...	1	...	...	1
Cotton piece-goods—								
1.—European	26	1	47	1	27	48	21	...
Drugs and chemicals—								
2.—Non-intoxicating—								
b.—Others	1	...	...	...	1	...	...	1
Dyes and tans—								
1.—Indigo	...	4	...	2	4	2	...	2
Jute—								
1.—Raw	...	5	...	37	5	37	32	...
2.—Gunny bags and cloths	59	2	20	2	61	22	...	39
Grains—								
1.—Wheat	...	1	...	1	1	1	...	...
2.—Rice	13	1,589	1	746	1,602	747	...	855
4.—Gram	...	2	...	...	2	...	...	2
5.—Others	...	45	21	57	45	78	33	...
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	...	1	...	7	1	7	6	...
b.—Undressed	...	...	...	1	...	1	1	...
2. Skins of sheep, goats and small animals—								
a.—Dressed	...	...	...	1	...	1	1	...
Lac—								
2.—Shell lac	1	...	...	...	1	...	...	1
Leather, manufactured	5	...	8	...	5	8	3	...
Metals—								
2.—Iron	2	...	29	...	2	29	27	...
4.—Others	9	7	8	7	16	15	...	1
Oils—								
1.—Castor	1	...	1	...	1	1	...	...
2.—Kerosine	3	...	2	...	3	2	...	1
3.—Others	3	...	13	...	3	13	10	...
Provisions—								
1.—Ghee	3	...	...	...	3	...	...	3
2.—Dried fruits and nuts	1	...	7	...	1	7	6	...
3.—Others	75	...	68	...	75	68	...	7
Railway plant and rolling-stock	43	19	8	21	62	29	...	33
Salt	22	...	38	...	22	38	16	...
Oilseeds—								
1.—Linseed	...	...	...	16	...	16	16	...
2.—Mustard and rape	12	...	99	...	12	99	87	...
6.—Others	16	1	...	3	17	3	...	14
Silk, raw—								
2.—Indian	4	13	2	7	17	9	...	8
Silk piece-goods—								
2.—Indian	...	4	...	5	4	5	1	...
Stone and lime	1	...	6	3	1	9	8	...
Sugar—								
1.—Drained	12	...	10	...	12	10	7	...
2.—Undrained	19	...	4	...	19	4	...	15
Tobacco	4	5	5	1	9	6	...	3
Timber	3	...	1	...	3	1	...	2
Paper and pasteboard	2	...	...	...	2	...	...	2
All other articles of merchandise	38	37	56	18	75	74	...	1
Total	794	1,736	1,754	937	2,530	2,691	1,145	984

INCREASE.

	Tons.
Coal	259

This increase is due to greater import of brick-burning coal.

Cotton piece-goods—

(1) European	21

This increase is due to steamer service between Jeaganj and Calcutta being closed.

Jute—

(1) Raw	32

This increase is due to the river communication between Jeaganj and Calcutta having been stopped and this traffic carried by rail this year.

Grains—

(5) Others	33

This increase is due to greater demand.

Metals—

(2) Iron	27

This increase is due to greater demand.

Oils—

(3) Others	10

The increase under this head is due to high market rate.

Salt	16

This increase is due to river communication between Jeaganj and Calcutta being stopped.

Oilseeds—

(1) Linseed	16

This is due to steamer service between Jeagunge and Calcutta being stopped.

Mustard and rape	87

This increase is due to greater import owing to high local market rate.

DECREASE.

Jute—

(2) Gunny bags and cloths	39

This decrease is due to less export from intermediate stations this year.

Grains—

(2) Rice	855

The decrease under this head is due to less export from intermediate stations, as the cultivators are waiting for a better rate.

Railway plant and rolling-stock	33

This is due to less materials carried during the month.

Oilseeds—

(6) Others	14

The decrease under this head is due to less import of guja seed.

Sugar—

Undrained	15

This decrease is due to less import for dull market.

The 23rd February 1889.

R. G. MOOKERJEE, *Manager, Nalhati State Railway.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	268,827	3,01,676 9 0	*29,33,291 10	6,25,945 2 0	16,383 13 0	9,44,005 8 0	65,588¾	99,043¾	164,632½
Or per mile of railway ...	... ..	199 4 8	... ..	413 8 1	10 13 2	623 9 11	....	... ..	.
For previous 6 weeks of half-year	1,389,136	16,68,350 13 0	1,65,18,472 0	35,54,913 2 4	97,621 12 9	53,20,885 12 1	374,676½	569,648¾	944,324¾
Total for 7 weeks ...	1,657,963	19,70,027 6 0	1,94,51,763 10	41,80,858 4 4	1,14,005 9 9	62,64,891 4 1	440,265	668,692¼	1,108,957¼
Comparison.									
Total for corresponding week of previous year	268,082	3,15,998 12 0	30,04,319 30	6,90,654 6 0	22,714 14 9	10,29,368 0 9	65,045	112,096	178,041
Per mile of railway corresponding week of previous year ..	.... .	208 12 0	......	456 4 1	15 0 1	680 0 2	......	......	.....
Total to corresponding date of previous year	1,916,039½	22,36,704 6 2	1,98,25,774 10	47,51,095 12 0	1,64,500 4 7	71,52,300 6 9	462,002	745,182	1,207,184

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
1,513¾	10,20,368	680	1,513¾	9,44,006	624	1,513¾	4,05,11,066	582	1,513¾	3,86,42,394	555	......	18,68,672

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P			
Total traffic for the week .	13,642	6,761 14 0	24,808 0	1,701 9 0	39 10 0	8,503 1 0	1,936	458	2,394
Or per mile of railway	228	118 3 5	433 30	29 12 0	0 11 1	148 10 6	..	.....	.. .
For previous 6 weeks of half-year	68,135	36,205 4 0	1,35,337 30	9,265 6 0	210 4 10	45,680 14 10	10,415	3,953	14,368
Total for 7 weeks ...	81,177	42,967 2 0	1,60,145 30	10,966 15 0	249 14 10	54,183 15 10	12,351	4,411	16,762
Comparison.									
Total for corresponding week of previous year . . .	17,163	9,784 2 2	35,616 20	2,321 5 0	50 2 6	12,155 9 8	1,870	524	2,394
Per mile of railway corresponding week of previous year ...	300	171 0 10	623 30	40 9 3	0 14 1	212 8 2	...	.	... .
Total to corresponding date of previous year	103,300	57,301 5 11	2,40,582 10	15,225 9 0	385 4 3	72,912 3 2	13,088	3,898	16,986

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs
57½	12,166	213	57½	8,503	149	57½	4,53,059	172	57½	*4,22,303	161	... .	30,756

* Added Rs. 100 on account of difference between the approximate and audited figures to 31st December 1888.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,541	423 12 0	14,087 10	284 14 0	13 4 0	721 14 0	330½	163½	493½
Or per mile of railway ...	...	35 5 0	......	23 11 10	1 1 8	60 2 6	......	......	......
For previous 6 weeks of half-year ...	14,418	2,461 0 0	1,13,632 30	2,757 15 0	44 1 8	5,263 0 8	1,943	877	2,820
Total for 7 weeks ...	16,959	2,884 12 0	1,27,720 0	3,042 13 0	57 5 8	5,984 14 8	2,273½	1,040½	3,313½
Comparison.									
Total for corresponding week of previous year ...	3,178½	533 2 4	18,408 0	307 13 0	19 1 0	860 0 4	327	166	493
Per mile of railway corresponding week of previous year	......	44 6 10	......	25 10 5	1 9 5	71 10 8	......	......	......
Total to corresponding date of previous year ...	21,773½	3,622 2 5	1,43,854 30	2,889 10 0	75 12 9	6,587 9 2	2,339	1,112	* 3,451

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 18th February 1888			Receipts for week ending 16th February 1889			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	860	72	12	722	60	12	42,108	70	12	*39,757	72	......	2,351

* Deducted Rs. 310 on account of difference between the approximate and audited figures to 31st December 1888.

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 74⅜ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,850	4,307 9 0	49,637 10	4,070 7 0	119 14 0	8,497 14 0	744	1,411½	2,155½
Or per mile of railway ...	..	57 9 5		54 6 8	1 9 8	113 9 9	......	......	......
For previous 6 weeks of half-year ...	30,272	22,428 11 0	5,30,132 20	26,272 6 0	471 13 6	49,172 14 6	3,870	5,260	9,130
Total for 7 weeks ...	36,122	26,736 4 0	5,79,769 30	30,342 13 0	591 11 6	57,670 12 6	4,614	6,671½	11,285½
Comparison.									
Total for corresponding week of previous year ..	5,911½	4,312 10 2	96,832 10	4,031 9 0	135 1 0	8,479 4 2	720	1,550	2,270
Per mile of railway corresponding week of previous year .	......	57 10 6	.....	53 14 4	1 12 11	113 5 9	......	......	......
Total to corresponding date of previous year ...	34,093½	25,007 7 1	6,48,156 10	30,858 6 0	937 4 6	56,803 1 7	4,709	11,021	15,730

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74⅜	8,479	113	74⅜	8,498	114	74⅜	3,92,532	114	74⅜	*3,21,400	93	......	71,128

* Deducted Rs. 764 on account of difference between the approximate and audited figures to 31st December 1888.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 22½ miles open.

	Coaching Traffic: Number of passengers.	Coaching Traffic: Receipts.	Merchandise and Mineral Traffic: Weight carried	Merchandise and Mineral Traffic: Receipts.	Other earnings (estimated).	Total earnings.	Traffic Train-miles run: Coaching.	Traffic Train-miles run: Merchandise.	Traffic Train-miles run: Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,814	6,108 5 0	9,656 0	334 7 0	6 8 0	6,449 4 0	899	69	968
Or per mile of railway	......	274 8 6	......	15 0 6	0 4 8	280 13 8	......	......	......
For previous 6 weeks of half-year	109,784	27,955 15 0	51,617 20	1,784 0 0	42 8 10	29,782 7 10	5,180	351	5,531
Total for 7 weeks ...	133,598	34,064 4 0	61,273 20	2,118 7 0	49 0 10	36,231 11 10	6,079	420	6,499
Comparison.									
Total for corresponding week of previous year	20,185½	5,179 11 3	10,904 0	372 14 0	9 2 6	5,561 11 9	851	117	968
Per mile of railway corresponding week of previous year .	......	232 12 9	......	16 12 1	0 6 7	249 15 5	......	......	......
Total to corresponding date of previous year	147,930½	38,106 4 7	58,146 0	2,023 3 0	45 13 3	40,175 4 10	6,264	644	6,908

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 18th February 1888: Mean mileage worked.	Receipts for week ending 18th February 1888: Receipts.	Receipts for week ending 18th February 1888: Per mile worked.	Receipts for week ending 16th February 1889: Mean mileage worked.	Receipts for week ending 16th February 1889: Receipts.	Receipts for week ending 16th February 1889: Per mile worked.	Total receipts from 1st April 1887 to 18th February 1888: Mean mileage worked.	Total receipts from 1st April 1887 to 18th February 1888: Total receipts.	Total receipts from 1st April 1887 to 18th February 1888: Per mile worked per week.	Total receipts from 1st April 1888 to 16th February 1889: Mean mileage worked.	Total receipts from 1st April 1888 to 16th February 1889: Total receipts.	Total receipts from 1st April 1888 to 16th February 1889: Per mile worked per week.	Total increase in 1889.	Total decrease in 1889.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,562	250	22½	6,449	290	22½	2,33,404	228	22½	*2,40,087	235	6,683	......

* Added Rs. 475 on account of difference between the approximate and audited figures to 31st December 1888.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 9th February 1889, on 673 miles open.

	Coaching Traffic: Number of passengers.	Coaching Traffic: Receipts.	Merchandise and Mineral Traffic: Weight carried.	Merchandise and Mineral Traffic: Receipts.	Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run: Coaching.	Traffic Train-miles run: Merchandise.	Traffic Train-miles run: Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	a199,070	83,190 0 0	4,07,290 0	67,030 0 0	11,940 0 0	1,62,160 0 0	21,711	23,360	45,071
Or per mile of railway ..	296	124 0 0	605 0	100 0 0	*2 0 0	226 0 0	......	... ..	... ..
For previous 5 weeks of half-year	613,505	3,19,140 0 0	24,79,090 0	5,49,150 0 0	82,710 0 0	9,51,000 0 0	101,602	135,280	236,882
Total for 6 weeks ..	812,575	4,02,330 0 0	28,86,380 0	6,16,180 0 0	94,650 0 0	11,13,160 0 0	123,313	158,640	281,953
Comparison.									
Total for corresponding week of previous year	121,387	81,783 0 0	5,00,317 0	84,876 0 0	14,897 0 0	1,81,556 0 0	22,997	26,137	49,134
Per mile of railway corresponding period of previous year ..	188	127 0 0	776 0	132 0 0	*2 0 0	261 0 0	......	... ..	... ..
Total to corresponding date of previous year	852,428	4,54,095 0 0	31,03,493 0	5,11,081 0 0	87,754 0 0	10,52,930 0 0	130,309	145,016	275,325

* Excluding steam-boat earnings.
a Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 11th February 1888: Mean mileage worked.	Receipts for week ending 11th February 1888: Receipts.	Receipts for week ending 11th February 1888: Per mile worked	Receipts for week ending 9th February 1889: Mean mileage worked.	Receipts for week ending 9th February 1889: Receipts.	Receipts for week ending 9th February 1889: Per mile worked.	Total receipts from 1st April 1887 to 11th February 1888: Mean mileage worked	Total receipts from 1st April 1887 to 11th February 1888: Total receipts.	Total receipts from 1st April 1887 to 11th February 1888: Per mile worked per week	Total receipts from 1st April 1888 to 9th February 1889: Mean mileage worked	Total receipts from 1st April 1888 to 9th February 1889: Total receipts.	Total receipts from 1st April 1888 to 9th February 1889: Per mile worked per week.	Total increase in 1888-89.	Total decrease in 1888-89.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,81,556	281	673	1,62,160	241	645	84,02,636	289	673	*92,94,476	307	8,91,840	......

* Audited up to week ending 22nd December 1888.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 16th February 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	152,104	81,070 0 0	4,60,580 0	77,190 0 0	14,220 0 0	1,75,380 0 0	21,786	22,655	44,441
Or per mile of railway	226	125 0 0	684 0	115 0 0	*2 0 0	242 0 0	......	......	......
For previous 6 weeks of half-year	812,575	4,02,330 0 0	28,86,380 0	6,16,180 0 0	94,650 0 0	11,13,160 0 0	123,313	158,640	281,953
Total for 7 weeks ...	964,679	4,86,300 0 0	33,46,960 0	6,93,370 0 0	1,08,870 0 0	12,88,540 0 0	145,099	181,295	326,394
Comparison.									
Total for corresponding week of previous year ...	128,395	82,444 0 0	5,01,653 0	81,884 0 0	15,159 0 0	1,79,487 0 0	22,738	26,052	48,797
Per mile of railway corresponding period of previous year .	199	128 0 0	778 0	127 0 0	*3 0 0	258 0 0	......	......	......
Total to corresponding date of previous year	980,823	5,36,539 0 0	36,05,146 0	5,92,965 0 0	1,02,913 0 0	12,32,417 0 0	153,047	171,075	324,122

* Excluding steam-boat earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs.	Rs.	Rs.
645	1,79,487	278	673	1,75,380	261	645	85,82,128	289	673	*94,69,856	306	8,87,733	......

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*32,870	9,410 0 0	56,528 0	3,090 0 0	60 0 0	12,560 0 0	3,597	2,075	5,672
Or per mile of railway	263	75 0 0	452 0	25 0 0		100 0 0	......	......	......
For previous 5 weeks of half-year	115,450	41,610 0 0	2,18,240 0	11,710 0 0	3,460 0 0	56,780 0 0	16,923	9,782	26,705
Total for 6 weeks ...	148,320	51,020 0 0	2,74,768 0	14,800 0 0	3,520 0 0	69,340 0 0	20,520	11,857	32,377
Comparison.									
Total for corresponding week of previous year .	22,952	9,324 0 0	51,425 0	3,001 0 0	165 0 0	12,580 0 0	3,303	1,907	5,210
Per mile of railway corresponding period of previous year	184	75 0 0	411 0	25 0 0	1 0 0	101 0 0	......	......	......
Total to corresponding date of previous year	152,227	54,682 0 0	2,70,058 0	16,216 0 0	2,658 0 0	73,556 0 0	19,818	11,442	31,260

* Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,580	101	125	12,560	100	125	5,79,140	103	125	*6,11,578	109	32,438	......

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,020	9,670 0 0	55,880 0	2,940 0 0	80 0 0	12,690 0 0	3,658	2,075	5,733
Or per mile of railway .	216	77 0 0	447 0	23 0 0	1 0 0	101 0 0	...	......	......
For previous 6 weeks of half-year	148,320	51,020 0 0	2,74,768 0	14,800 0 0	3,520 0 0	69,340 0 0	20,520	11,857	32,377
Total for 7 weeks ...	175,340	60,690 0 0	3,30,648 0	17,740 0 0	3,600 0 0	82,030 0 0	24,178	13,932	38,110
Comparison.									
Total for corresponding week of previous year	23,554	8,099 0 0	59,374 0	3,893 0 0	46 0 0	12,938 0 0	3,303	1,907	5,210
Per mile of railway corresponding period of previous year ...	188	72 0 0	475 0	31 0 0	1 0 0	104 0 0	...	......	......
Total to corresponding date of previous year	175,781	63,681 0 0	3,30,032 0	20,109 0 0	2,704 0 0	86,494 0 0	23,121	13,349	36,470

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipt for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,938	104	125	12,690	101	125	5,92,078	103	125	*6,24,268	109	32,190	... ..

* Audited up to week ending 22nd December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th February 1889, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,800	4,640 0 0	9,300 0	1,080 0 0	110 0 0	5,830 0 0	2,402	702	3,104
Or per mile of railway ...	160	54 0 0	108 0	13 0 0	1 0 0	68 0 0	......	......	.
For previous 5 weeks of half-year	65,935	22,080 0 0	65,500 0	7,120 0 0	960 0 0	30,160 0 0	11,628	3,038	14,666
Total for 6 weeks ...	79,735	26,720 0 0	74,800 0	8,200 0 0	1,070 0 0	35,990 0 0	14,030	3,740	17,770
Comparison.									
Total for corresponding week of previous year .	12,538	4,052 0 0	6,544 0	935 0 0	76 0 0	5,063 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year .	146	47 0 0	76 0	11 0 0	1 0 0	59 0 0	......	......	......
Total to corresponding date of previous year	81,545	26,537 0 0	84,394 0	6,744 0 0	1,148 0 0	34,429 0 0	14,910	3,714	18,624

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,003	59	86	5,830	68	86	2,60,367	67	86	*2,57,927	67	. .	2,440

* Audited up to week ending 22nd December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,010	5,070 0 0	10,340 0	1,070 0 0	160 0 0	6,300 0 0	2,402	702	3,104
Or per mile of railway	174	59 0 0	120 0	12 0 0	2 0 0	73 0 0	......	......	......
For previous 6 weeks of half-year	79,735	26,720 0 0	74,800 0	8,200 0 0	1,070 0 0	35,900 0 0	14,030	3,740	17,770
Total for 7 weeks ...	94,745	31,790 0 0	85,140 0	9,270 0 0	1,230 0 0	42,200 0 0	16,432	4,442	20,874
COMPARISON.									
Total for corresponding week of previous year	13,308	4,163 0 0	6,474 0	896 0 0	116 0 0	5,175 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year ..	155	48 0 0	75 0	11 0 0	1 0 0	60 0 0	.....	......	......
Total to corresponding date of previous year	94,853	30,700 0 0	90,868 0	7,640 0 0	1,264 0 0	39,604 0 0	17,395	4,333	21,728

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 18th February 1888			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs.
86	5,175	60	86	6,300	73	86	2,65,542	67	86	*2,64,227	67	...	1,315

* Audited up to week ending 22nd December 1888.

ASSAM-BEHAR STATE RAILWAY.

(PURNEAH SECTION.)

Approximate Return of Traffic for the week ended 9th February 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,430	880 0 0	35,930 0	2,440 0 0	10 0 0	3,330 0 0	532	532	1,064
Or per mile of railway	64	23 0 0	946 0	64 0 0	1 0 0	88 0 0	......	......	......
For previous 5 weeks of half-year	11,337	4,530 0 0	1,07,690 0	8,510 0 0	130 0 0	13,170 0 0	2,532	2,532	5,064
Total for 6 weeks ...	13,767	5,410 0 0	1,43,620 0	10,950 0 0	140 0 0	16,500 0 0	3,064	3,064	6,128
COMPARISON.									
Total for corresponding week of previous year	2,856	1,027 0 0	25,240 0	1,902 0 0	67 0 0	2,996 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	73	26 0 0	647 0	49 0 0	2 0 0	77 0 0	......	......	.....
Total to corresponding date of previous year	19,325	6,967 0 0	1,27,415 0	9,173 0 0	302 0 0	16,442 0 0	3,276	3,276	6,552

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 11th February 1888.			Receipts for week ending 9th February 1889.			Total receipts from 1st April 1887 to 11th February 1888.			Total receipts from 1st April 1888 to 9th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	2,996	77	38	3,330	88	39	1,03,475	59	38	*1,48,696	87	45,221	.....

* Audited up to week ending 22nd December 1888.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 16th February 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	6,744	2,950 0 0	27,560 0	1,890 0 0	20 0 0	4,860 0 0	532	532	1,064
Or per mile of railway .. .	177	78 0 0	725 0	50 0 0	... ..	128 0 0	..	.... .	
For previous 6 weeks of half-year	13,767	5,410 0 0	143,620 0	10,950 0 0	140 0 0	16,500 0 0	3,064	3,065	6,128
Total for 7 weeks ...	20,511	8,360 0 0	171,180 0	12,840 0 0	160 0 0	21,360 0 0	3,596	3,596	7,192
Comparison.									
Total for corresponding week of previous year ..	2,813	941 0 0	26,319 0	1,963 0 0	30 0 0	2,934 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	72	24 0 0	675 0	50 0 0	1 0 0	75 0 0	......	... .	.
Total to corresponding date of previous year	22,138	7,908 0 0	153,734 0	11,136 0 0	332 0 0	19,376 0 0	3,822	3,822	7,644

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	2,934	75	38	4,860	128	39	1,06,409	59	38	*1,53,556	88	47,147	.

* Audited up to week ending 22nd December 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 16th February 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated)	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week . ..	3,388	1,223 0 0	12,850 0	836 0 0	9 0 0	2,068 0 0	509	254	763
Or per mile of railway ..	124	45 0 0	472 0	31 0 0	......	76 0 0	.. ..	......	.. .
For previous 5 weeks of half-year	17,729	6,173 0 0	89,100 0	4,839 0 0	75 0 0	11,087 0 0	2,909	3,273	6,182
Total for 6 weeks ...	21,117	7,396 0 0	1,01,959 0	5,675 0 0	84 0 0	13,155 0 0	3,418	3,527	6,945
Comparison.									
Total for corresponding week of previous year ...	3,733	1,418 0 0	16,179 0	871 0 0	25 0 0	2,314 0 0	509	485	994
Per mile of railway corresponding week of previous year ...	137	52 0 0	594 0	32 0 0	1 0 0	85 0 0	. .	.....	
Total to corresponding date of previous year	23,532	8,719 0 0	1,32,993 0	6,377 0 0	253 0 0	15,349 0 0	3,503	3,434	6,937

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889.			Total receipts from 1st April 1887 to 18th February 1888			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,314	85	27½	2,068	76	27½	81,442	66	27½	88,348	72	6,906	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 16th February 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	51,402	19,839 0 0*a*	1,36,838 0	13,593 0 0	3,564 0 0	36,996 0 0	5,822	5,577	11,399
Or per mile of railway	188	73 0 0	501 0	50 0 0	3 0 0	126 0 0*	... .	......	......
For previous 5 weeks of half-year ... .. - ..	210,102	75,325 0 0	7,76,274 0	76,297 0 0	17,957 0 0	1,69,579 0 0	30,547	32,562	63,109
Total for 6 weeks ..	261,504	95,164 0 0	9,13,107 0	89,890 0 0	21,521 0 0	2,06,575 0 0	36,369	38,139	74,508
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	42,370	15,752 0 0	2,47,441 0	29,034 0 0	2,907 0 0	47,693 0 0	6,538	9,685	16,223
Per mile of railway corresponding week of previous year .	164	61 0 0	955 0	112 0 0	1 0 0	174 0 0*	......	. ...	......
Total to corresponding date of previous year	310,631	1,29,512 0 0	14,19,600 0	1,56,002 0 0	21,249 0 0	3,06,763 0 0	47,822	58,938	1,06,755

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
a Increase is due to "Maghi Pornamasi mêla."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 18th February 1888.			Receipts for week ending 16th February 1889			Total receipts from 1st April 1887 to 18th February 1888.			Total receipts from 1st April 1888 to 16th February 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	47,093	184	273	36,996	136	251·74	15,77,985	139	265·04	14,44,675	121	....	1,33,310

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 9th February 1889	7,005
Corresponding week last year	6,953
Increase	52
Receipts from 1st January to 9th February 1889	37,751
From 1st January to 11th February 1888	38,341
Decrease	590
	Miles.
Miles open week ending 9th February 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 9th February 1889	137 5 8
Corresponding week last year	136 5 4
Increase	1 0 4

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 27th February 1889.

REGISTERED No. 29.

No. 10 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 6, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 2nd March 1889.

Division	No.	District and date of return		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.					
		Western Districts.			
BURDWAN DIVN.	1	Burdwan	Mar. 2, '89	Nil	Weather—seasonable. *Rubbi* and sugarcane harvests are yielding almost an average outturn. Prices of common rice fluctuate, the tendency being still towards a fall.
	2	Baukoora	„ 2, '89	Nil	Weather—getting warmer. Harvesting of *rubbi* crops has commenced; average outturn 8 annas. Prices have slightly risen.
	3	Birbhum	„ 2, '89	.....	Weather—much warmer up to last night. The rain of last night and this morning will facilitate ploughing.
	4	Midnapur	„ 2, '89	Nil	Weather—getting warmer. Prospects of crops promising owing to the late rain.
	5	Hugli	„ 2, '89	Nil	Weather—daily getting warmer. *Rubbi* crops are being harvested; outturn fair
		Howrah	„ 4, '89	0·54	Weather—getting hot: two nor'-westers. State and prospects of crops good.
		Central Districts.			
PRESIDENCY DIVN.	6	24-Perghs.	Mar. 5, '89	0·27	Weather—warm and cloudy with a nor' wester at end of week. Prospects of crops fair. Ploughing continues. Harvesting of *rubbi* crops is all but over.
	7	Nuddea	„ 2, '89	Nil	Weather—seasonable. Outturn of spring crops expected to be fair. Earlier crops are being harvested. Ploughing for *aus* paddy going on.
	8	Khoolna	„ 2, '89	0·37	Weather—cold and seasonable. *Boro* and *rubbi* crops doing well.
	9	Jessore	„ 2, '89	0·70	Weather—getting warm. Ploughing of rice lands going on in places. *Rubbi* crops doing well.
	10	Moorshedabad	„ 2, '89	......	Weather—bright and cool up to the 1st evening. Rainy and cloudy from last night. Lands are being prepared for *aus dhan*. Harvesting of *rubbi* commenced.
RAJSHAHYE DIVN.	11	Dinagepur	„ 2, '89	...	Weather—growing warmer. A shower last night (1st March). Prospects of crops on the ground good. Fields being prepared for *bhadoi* sowings.
	12	Rajshahye	„ 2, '89	Nil	Weather—seasonable. Condition of spring crops fair. Rice sells at 15¼ seers per rupee. Ganja being manufactured.
	13	Rungpur	„ 2, '89	Nil	Weather—unusually warm. Rain threatens. The cold-weather crops are fairly good. Tobacco will give splendid results. Sugarcane is being crushed. Paddy sowings actively progressing.
		Kurigram	...	0·09	
	14	Bogra	„ 2, '89	Nil	Weather—seasonable. Spring crops are promising. Sugarcane is being cut and crushed. Land is being ploughed for early sowings. Common rice selling at 21 seers per rupee.
	15	Pubna	„ 2, '89	Nil	Weather—cloudy at close of week. *Rubbi* crops poor in Sudder sub-division. Sugarcane being planted.
	16	Darjeeling	„ 2, '89	0·08	Weather—getting daily warmer. State of crops satisfactory.
	17	Julpigoree	„ 2, '89	Nil	Weather—getting warm daily. Ploughing for *bhadoi* in progress. Sugarcane is being cut and crushed. Winter crops doing well. Prices stationary.
		Eastern Districts.			
DACCA DIVN.	18	Dacca	Mar. 2, '89	Nil	Weather—days hot and nights cool and fine. Pulses are being gathered. Mustard has nearly been reaped. *Boro* paddy thriving. Ploughing for *aus* and *amun* paddy continues. Prospects of crops generally good. Rain is wanted.
	19	Furreedpur	„ 2, '89	Nil	Weather—cloudy and warm. Prospects of crops favourable.
	20	Backergunge	Feb. 28, '89	Nil	Weather—seasonable. Prospects of crops good.
	21	Mymensingh	Mar. 1, '89	Nil	Weather—getting hot. Prospects of crops good.
CHITTAGONG DIVN.	22	Chittagong	„ 5, '89	0·10	Weather—hot. Winter crops thriving. Prices steady.
	23	Noakholly	„ 1, '89	Nil	Weather—seasonable. *Rubbi* crops are being harvested. Preparation of soil for *aus* crops continues.
	24	Tipperah	Feb. 28, '89	Nil	Weather—seasonable. Cold-weather crops are giving a fair yield. Ploughing for the rain crops is in full progress.
		Brahmanberiah	...	0·6	
	25	Chittagong Hill Tracts.	„ 26, '89	0·97	Weather—cool at night and hot during day. *Jum* cutting continues. *Chillies* and tabacco doing well.
		Hill Tipperah	„ 28, '89	Nil	Weather—warm and windy. *Jum* cutting still continues. No important crop in the fields.

	No.	District and date of return.*		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.					
PATNA DIVN.	26	Patna	Mar. 2, '89	0 11	Weather—seasonable. Prospects of *rubbi* and poppy not so good as when last reported owing to recent rain, but fair harvest still expected. Gathering of *mussoor* and gram in progress, and cutting of wheat begun. Prices stationary.
	27	Gya	" 2, '89	0 80	Weather—cloudy and hot, bad for the *rubbi* and poppy crops. The heavy rain and strong wind of last night have done serious damage to the *rubbi* crops in general. The damage done up to date by the successive falls of rain and hail is estimated at 6 annas in the cereals and 8 annas in poppy.
	28	Shahabad	" 2, '89	0 12	Weather—warmer. Prospects of *rubbi* and poppy crops fair. Prices stationary.
	29	Durbhunga Madhubani	" 3, '89	0 09 0 05	Weather—occasionally cloudy. In south linseed yield expected 12 annas; *rubbi* and tobacco being harvested; prices falling. In centre prices almost stationary with a tightening tendency; *rubbi* very good. In Madhubani poppy and *rahar* damaged by rain, otherwise crop prospects unchanged. Pressure reported to be deepening in extreme north-west.
	30	Mozufferpur Hajipur Sitamarhi	" 2, '89	0·20 0 01 0 07	Weather—warmer with west wind. *Cheena, mung* and *dhan* are being sown and germinating well. Indigo is also being sown. Generally a good crop of mustard is being harvested. Poppy good in north; not improved by rain in south.
	31	Sarun Sewan	" 2, '89	0 34 0 12	Weather—very unsettled. Thunderstorms and some hail. Prospects of indigo good. Sowings rather interfered with by rain. Poppy rather damaged by rain and hail. *Rubbi* still very good from 12 to 14 annas.
	32	Chumparun Bettiah	" 2, '89	0·11 0 4	Weather unsettled. Prospects of standing *rubbi* and poppy good. Estimated outturn in Bettiah sub-division 16 annas. Mango trees in full blossom. Extraction of opium going on. More rain would do harm.
BHAGULPORE DIVN.	33	Monghyr	" 2, '89	..	Weather—getting warmer gradually. Some storms with slight rain on the night of the 1st. Standing crops doing well, but the storms have caused some damage. Peas, mustard, linseed and *mussoori* are being reaped.
	34	Bhagulpur Madhepurah	" 2, '89	0 03 0·02	Weather—warmer, storm and slight rain yesterday (1st). Standing crops have suffered from the unseasonable rain, and outturn will probably fall below expectations, especially to the east. Harvesting of peas and other early crops continues in places.
	35	Purneah	" 2, '89	Nil	Weather—seasonable, though rather cloudy for the time of year. Prospects of *rubbi* continue to be favourable. Ploughing for the *aus* crop has commenced.
	36	Maldah Chanchal	" 2, '89 ...	Nil 0 02	Weather—generally clear; days warmer, nights still cold. Transplanting of *boro* paddy progressing. *Rubbi* crops are good, except in thanas English Bazar, Kalia hak, Kharba and Manickchak outpost, where much damage was done by the hailstorm of the 30th January.
	37	Sonthal Pergunnahs	" 2, '89	0 19	Weather cloudy; getting warmer daily. Prospects of standing *rubbi* crops continue fair. Mangoe blossoms damaged by rain and hail.
ORISSA.					
ORISSA DIVN.	38	Cuttack	" 1, '89	Nil	Weather—fair and seasonable. *Sarad* and *rubbi* crops are being gathered. Prospects of standing crops continue fair. Common rice sells at 17 seers 1 chittack per rupee in town.
	39	Pooree Khoorda	Feb. 28, '89	Nil 0 10	Weather—seasonable. Land is being ploughed. *Dalua* crop is in ear. *Rubbi* is being gathered. Common rice 18 seers 11 chittacks, per rupee in the Sudder sub-division and 15 seers 1 chittack in the Khoorda sub-division.
	40	Balasore	" 1, '89	Nil	Weather—seasonable. Ploughing of lands for rice crop has commenced. More rain would be welcome.
CHOTA NAGPORE.					
South-West Frontier Agency.					
CHOTA NAGPORE DIVN.	41	Hazaribagh	Mar 1, '89	Nil	Weather—cloudy occasionally; unusually cool. The recent rain has somewhat improved the prospects of *rubbi*, 6 to 8 annas outturn expected. Rice lands are being ploughed. Poppy is being lanced; the crop is very good. Rice is selling at from 15 to 18 seers per rupee.
	42	Lohardugga	" 2, '89	Slight rain.	Weather—cloudy. More rain is expected. Land is being prepared for sowing of early paddy. Prices as before.
	43	Singbhoom	" 1, '89	Nil	Weather—hot and dry. Gathering of *rubbi* crop continues; very little crop left on the ground. Prices stationary.
	44	Manbhoom	" 2, '89	..	Weather—stormy, with clouds. The rain of yesterday (1st) will improve the *rubbi*, and facilitate ploughing and planting out of sugarcane. *Mohwa* is beginning to fall. Prices stationary.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 5th March 1889.

P. NOLAN,
Secy to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of February 1889.

	Inches.	Date.	Hour
The mean pressure of the month	29 995		
The average pressure of February from 24 years' registers ...	29·945		
The highest pressure in the month	30·152	14th	10h.
The lowest pressure in the month	29·878	19th	16h.
The range of pressure	0·274		
	Hours.		
The total number of hours of bright sunshine during the month	264·0		
The maximum possible number of hours of sunshine ...	318·0		
	⊖		
The mean temperature of the month	69·5		
The average temperature of February from 24 years' registers	73 0		
The highest temperature in the month	87·3	28th.	
The lowest temperature in the month	49 6	6th.	
The range of temperature during the month	37·7		
The mean daily range of temperature	20·9		
The greatest range of temperature in one day	26·6	10th.	
	Per cent.		
The mean humidity of the month	70		
The average humidity of February from 24 years' registers ...	67		
	Inches.		
The mean vapour tension of the month	0·495		
The average vapour tension of February from 9 years' registers	0·538		
The mean cloud proportion of the month	1 42		
The average cloud proportion of February from 12 years' registers	1·84		
	Inches.		
The total rainfall of the month	2·46		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the guage about 52 feet above the ground)	2·39		
The average fall of February from 48 years' registers ...	0·87		
The greatest fall in 24 hours	0·90	19th.	
	Days.		
The number of rainy days in the month	4		
The average number of rainy days in February from 24 years' registers	3		
	⊖		
The mean maximum equilibrium temperature of solar radiation during the month	135·4		
The mean difference of sun and air temperatures	55·4		
The greatest sun temperature	141·8	23rd.	
The greatest excess of sun over air temperature	64·8	4th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	52 2		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	7·2		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	10 4	4th.	
	Miles.		
The mean movement of the wind per day	48·5		
The greatest movement of the wind in one day	108·0	4th.	
The greatest movement of the wind in one hour	11·0	19th Noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 104, NE. 35, E. 16, SE. 20, S. 18, SW. 74, W. 80, NW. 91, Calm 234.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2·1° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

A. PEDLER,

For Offg Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 4th March 1889.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District	Representative station	Air pressure: Mean barometric height, 8 A.M.	Air pressure: Mean reduced to sea-level	Air pressure: Variation from mean	Wind: Prevailing direction	Wind: Mean wind velocity	Temperature: Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree	30·026	30·039	—	WSW	206	86·2	1st March	65·7	23rd Feb	84·1	70·9	77·5	—	75·0
		Gopalpore	30·009	30·059	+·060	WSW	302	85·2	26th, 27th, 28th Feb & 1st March	71·8	23rd "	84·6	73·9	79·3	+1·9	77·3
		False Point	30·015	30·037	+·038	WSW	210	85·4	1st "	63·0	24th & 25th Feb.	84·0	65·6	74·8	−2·8	73·7
	Cuttack	Cuttack	29·987	30·051	+·061	Calm	43	97·4	27th Feb & 1st March	65·3	25th "	94·4	67·7	81·1	+0·2	72·4
	Balasore	Balasore	29·977	30·038	+·037	Variable	113·8	93·4	1st "	60·6	28th "	88·9	65·8	77·3	+1·6	71·7
South-West Bengal	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·016	30·043	+·053	SW	247	86·7	27th Feb.	64·9	23rd "	83·7	72·1	77·9	+0·6	74·9
	Midnapore	Midnapore	29·894	30·050	+·039	N & S	53·7	91·3	26th, 27th, 28th & 1st March	64·2	23rd "	88·9	66·4	77·7	+1·3	73·0
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·016	30·038	+·045	Calm	55	87·5	1st "	62·3	23rd "	84·3	64·9	74·6	−0·7	70·7
	Burdwan	Burdwan	29·925	30·031	+·033	Calm	36·1	90·9	1st "	62·4	23rd, 27th & 28th Feb.	88·8	64·6	76·7	+1·7	69·6
	Bankoora	Bankoora	29·765	30·014	—	Calm	78	92·2	28th Feb.	62·8	23rd "	89·3	66·0	77·7	—	71·7
	Beerbhoom, West Burdwan	Raneegunge	29·706	30·027	+·030	Calm	57·1	91·5	25th "	63·0	27th "	88·6	65·0	76·8	+2·4	70·3
	Moorshedabad	Berhampore	29·970	30·040	+·069	WNW.	62·8	87·6	27th March & 1st Feb.	58·7	28th & 1st March	85·5	60·8	73·2	−0·6	66·5
	Nuddea	Krishnaghur	29·994	30·062	+·094	South-Easterly	72·4	89·8	27th "	57·9	28th Feb	87·2	61·0	74·1	+0·5	69·5
	Jessore, Khoolna	Jessore	30·012	30·047	+·057	Calm	45·2	90·7	26th & 27th Feb.	60·5	23rd "	87·6	63·1	75·4	+0·3	69·8
East Bengal	Chittagong	Chittagong	29·956	30·050	+·039	NW	56·3	89·6	26th "	57·6	23rd "	86·9	62·5	74·7	+1·5	68·6
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	30·028	30·041	+·063	Calm	47·6	88·3	26th & 27th Feb.	60·1	23rd Feb	85·5	64·2	74·9	+0·7	71·7
	Noakholly	Noakholly	30·002	30·047	+·057	SSE	69·6	86·7	28th "	58·0	24th "	84·3	61·6	73·0	+0·8	72·3
	Furreedpore	Furreedpore	30·006	30·017	+·048	Calm	48	84·8	26th "	57·0	28th "	82·6	59·4	71·0	−2·0	69·6
	Dacca	Dacca	30·011	30·034	+·015	Calm	34·9	90·6	26th "	60·3	23rd "	87·5	62·4	74·9	+0·4	70·9
	Commillah	Commillah	30·000	30·037	+·038	Calm	35·0	90·4	27th Feb. & 1st March	58·0	28th "	87·3	61·9	74·6	+1·2	67·0
	Mymensingh	Mymensingh	29·984	30·014	+·046	ENE	63·6	86·9	26th Feb.	52·5	28th "	83·2	57·8	70·5	+1·6	65·3
North Bengal	Bogra	Bogra	29·9 5	30·021	+·062	Southerly	58·3	87·8	26th "	51·2	28th "	84·2	58·8	71·5	+0·3	67·7
	Pubna	Serajgunge	29·974	30·022	+·030	SW	40·9	88·3	26th "	51·8	28th "	85·6	57·0	71·3	+0·9	67·1
	Rajshahye	Rampore Beauleah	29·961	30·054	+·053	Variable	44·8	86·3	26th "	57·2	23rd & 28th Feb	83·8	59·4	71·6	+1·2	68·2
	Maldah	Maldah	29·957	30·041	—	Westerly	91·4	86·8	1st March	55·5	27th & 28th Feb	85·4*	57·9*	71·7*	—	71·8
	Dinagepore	Dinagepore	29·913	30·040	+·059	SW	66	84·1	26th Feb & 1st March	54·2	27th & 28th Feb	81·8	57·8	69·8	+1·0	65·0
	Rungpore	Rungpore*	29·930	30·061	+·080	ENE	70	85·6	27th Feb.	51·8	27th "	80·9	56·1	68·5	+0·5	63·8
	Julpigoree, Cooch Behar	Julpigoree	29·740	30·042	+·050	NE	40·4	80·9	28th Feb & 1st March	59·9	27th "	78·1*	52·9*	65·5*	−2·2	62·7
	Darjeeling Hill Tracts	Darjeeling*	23·032	—	+·001	Variable	?	54·2	28th Feb.	35·8	23rd "	49·6	40·2	44·9	+2·2	45·9
North Behar	Purneah, North Bhagulpore	Purneah	29·893	30·026	+·047	NE	84·9	84·2	27th "	55·5	27th "	80·2	58·6	69·4	+0·3	64·0
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga	29·831	30·037	+·053	WSW	135	80·4	1st March	58·9	28th Feb.	77·6	61·0	69·3	+0·7	65·5
	Chumparun	Motihari														
	Sarun	Chupra	29·841	30·046	+·046	Westerly	31·6	72·5	26th Feb.	57·9	27th & 28th Feb		60·2	?	?	67·1
South Behar	Shahabad	Dehree	29·661	30·032	+·032	South-Westerly	130·6	88·3	25th "	61·0	23rd, 24th, 27th Feb.	86·2	63·4	74·8	+3·2	68·1
		Buxar	29·717	30·011	+·040	Westerly	165·0	85·4	26th Feb & 1st March	55·9	27th "	82·9	60·7	71·8	+1·0	66·1
		Arrah	29·825	30·032	+·054	W	64·7	85·8	1st "	54·8	27th "	82·4	59·2	70·8	+0·4	64·?
	Gya	Gya	29·660	30·055	+·056	Calm	80·7	86·4	26th Feb.	60·5	27th "	84·4	62·6	73·5	+0·5	68·[illegible]
	Patna	Bankipore	29·841	30·034	+·041	W	92·9	86·0	1st March	56·9	27th "	82·0	60·7	71·3	+1·3	65·[illegible]
	South Bhagulpore, Monghyr	Bhagulpore	29·855	30·023	+·036	W	81	84·2	26th Feb.	57·0	28th "	81·1	60·6	70·9	+0·9	67·[illegible]
	Sonthal Pergunnahs	Doomka	29·530	30·048	+·078	Calm	35·7	87·3	1st March	59·5	27th "	84·3	62·3	73·3	+1·3	70·[illegible]
Chota Nagpore	Hazaribagh	Hazaribagh	27·998	30·060	+·055	NW	172·6	85·4	26th Feb.	58·7	27th "	82·5	61·6	72·1	+2·1	68
	Lohardugga, Manbhoom	Ranchee	27·854	30·030	+·019	Calm	139·0	86·7	1st March	56·1	23rd "	83·3	61·0	72·2	+0·9	68·[illegible]
	Singbhoom	Chyebassa	29·252	30·041	+·043	Calm & W	18·4	94·6	1st "	59·4	23rd "	92·1	65·1	78·6	+3·2	71·[illegible]

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 1st of March 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of February. Mean for district.	Since 1st of February. Normal mean.	Since 1st of February. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
78	0	Nil	Nil	0'06	0 63	0 86	−0'23	44'75	56'51	−11'76	0'0	0'3	Pooree ...	Pooree	ORISSA.
69	0 1	Nil		—	—	—	—	—	—	—	—	—	Gopalpore ..		
85	0'6	Nil	•	—	—	—	—	—	—	—	—	—	False Point ...		
81	2'0	Nil	Nil	0'08	1'24	0'80	+0'44	52 82	52'81	+0'01	0 0	0 3	Cuttack ...	Cuttack	
77	0	Nil	Nil	0'26	1'30	1'06	+0'24	54'25	54'40	−0'15	0'0	0'4	Balasore ...	Balasore	
84	1'6	Nil	Nil	0'36	1'70	1'47	+0'23	56 69	63'86	−7'17	0'0	0'4	Saugor Island ..	South-West Midnapore South 24-Pergunnahs	SOUTH-WEST BENGAL.
72	1'4	Nil	Nil	0'42	3'06	1 22	+1'84	65'26	52 78	+12'48	0'0	0'4	Midnapore ...	Midnapore	
82	0'9	Nil	Nil	0'21	2 07	1'31	+0'76	64'50	52'97	+11'53	0'0	0'4	Calcutta ...	24-Pergunnahs... . Howrah ... . Hooghly	
74	2'3	Nil	Nil	0 16	0'34	1'04	−0 70	56'52	47'74	+8 78	0'0	0'4	Burdwan ...	Burdwan	
68	2'1	Nil	Nil	0'15	1'18	0'70	+0'48	53'40	52 96	+0'44	0 0	0'4	Bankoora ...	Bankoora	
72	1'8	Nil	0'07	0'07	0'91	0'98	−0'07	58'99	52 58	+6'41	0 3	0 3	Raneegunge ...	Beerbhoom ... ... West Burdwan ..	
80	2'6	Nil	Nil	0'06	0'93	0'80	+0'13	49 70	51'35	−1'65	0 0	0'2	Berhampore ..	Moorshedabad	
79	2 0	Nil	Nil	0'14	0'68	1'06	−0'38	55'41	50 20	+5'21	0 0	0'3	Krishnaghur ...	Nuddea	
82	2'1	Nil	Nil	0'23	0'68	1'17	−0'49	45'12	54 41	−9'29	0 0	0'3	Jessore ...	Jessore ... ... Khoolna	
82	1'6	Nil	Nil	0'14	0 70	0 77	−0'07	126 47	114'58	+11'89	0 0	0'3	Chittagong ..	Chittagong	EAST BENGAL.
			Nil	0'13	1'29	0'92	+0'37	73 70	82 58	−8'88	0 0	0'4	Demagiri ...	Chittagong Hill Tracts	
87	0'3	Nil	Nil	0 19	1'42	1 08	+0'34	73'52	78'11	−4 59	0 0	0 4	Barrisal ...	Backergunge	
82	3'3	Nil	Nil	0'23	1 50	1'13	+0'37	107'26	108 31	−1'05	0 0	0'5	Noakholly ...	Noakholly	
78	0	Nil	Nil	0'25	0'50	1'24	−0'74	48'42	56'98	−8 56	0'0	0'4	Furreedpore ...	Furreedpore	
76	1'4	Nil	Nil	0'23	0 61	1'25	−0'64	56 73	61 07	−4 34	0'0	0'4	Dacca .	Dacca	
91	1'7	Nil	Nil	0'17	0'95	1 06	−0 11	63 03	70'39	−7 36	0'0	0'4	Commillah ..	Tipperah	
79	2'3	Nil	Nil	0'18	0 23	1'03	- 0 80	67'47	68 36	−0 89	0 0	0 3	Mymensingh ..	Mymensingh	
72	0	Nil	Nil	0 18	0'81	0'95	−0'14	46 39	58'18	−11 79	0'0	0 3	Bogra ...	Bogra	NORTH BENGAL.
69	1 4	Nil	Nil	0'21	0 42	1 19	−0'77	42 17	54 57	−12 10	0 0	0'4	Serajgunge ..	Pubna	
76	1 1	Nil	Nil	0 02	0 68	0 85 •	−0 17	47 91	54 73	−6 82	0 0	0'1	Rampore Beauleah	Rajshahye	
62	0 3	Nil	Nil	0'01	0 50	0 59	−0 09	43 83	54 82	−10 99	0'0	0 1	Maldah ...	Maldah	
78	2'0	Nil	0'01	0 05	0'93	0'49	+0 44	49'51	57 91	−8'40	0 2	0'2	Dinagepore ...	Dinagepore	
77	0 5	Nil	Nil	0 06	0 82	0'47	+0 35	59'23	74 31	−15 08	0 0	0'2	Rungpore ..	Rungpore	
86	0'3	Nil	Nil	0'02	1 79	0'31	+1 48	80 95	111'54	−21 59	0 0	0'1	Julpigoree ...	Julpigoree ... . Cooch Behar	
93	6'3	0'08	0 02	0'12	1 94	0'61	+1'33	102 54	121'99	−19 45	0 5	0 3	Darjeeling ...	Darjeeling Hill Tracts	
82	2'0	Nil	Nil	0'01	0 64	0'50	+0 14	51'20	59 16	−7 87	0 0	0'1	Purneah • ..	Purneah ... .. North Bhagulpore ..	NORTH BEHAR.
			0'11	0 02	1'47	0'39	+1'08	43'91	43'96	−0 05	1 7	0'1	Mozufferpore ..	Mozufferpore	
71	1'9	0'02	0 05	0'01	1'12	0 40	+0 72	43'17	45 12	−1'95	1'3	0 1	Durbhunga ..	Durbhunga	
			0 12	Nil	1'73	0'38	+1'35	44'81	47'19	−2 38	1 5	0'0	Motihari .	Chumparun	
80	3'0	0'08	0 30	0'03	1'52	0'41	+1'11	41 60	43'39	−1 79	1 7	0 1	Chupra ..	Sarun	
68	4'0	Nil											Dehree ...		SOUTH BEHAR.
70	4'3	0'15	0'09	0'01	1'02	0'37	+0 65	43'82	40 43	+3 39	0'6	0'1	Buxar ...	Shahabad	
79	3'7	Nil											Arran ..		
70	4'4	Nil	0'24	0 02	1'88	0'44	+1'44	52 69	42 09	+10 60	0'8	0 1	Gya ..	Gya	
72	5 0	Nil	0'08	0'01	2 11	0 41	+1 70	51 12	41 75	+9 37	0 5	0'1	Bankipore ..	Patna	
70	1'9	Nil	Nil	0'01	1 56	0'53	+1'03	52'50	43 70	+8'80	0 0	0'1	Bhagulpore ...	South Bhagulpore .. Monghyr	
67	0	Nil	Nil	0'04	0'76	0'48	+0'28	55'22	51 28	+3 94	0'0	0 2	Doomka ...	Sonthal Pergunnahs .	
56	4 9	0'02	0'01	0 07	0'96	0 57	+0 39	57 94	51 04	+6 90	0'2	0'3	Hazaribagh ...	Hazaribagh	CHOTA NAGPORE.
50	2'0	Nil	Nil	0'12		0 68			49 78		0 0	0 3	Ranchi ...	Lohardugga	
			Nil	0'08	0 58	0'95	−0'37	47 81	47'90	−0'09	0'0	0 2		Manbhoom	
61	2'7	Nil	Nil	0'03	0 33	0'84	−0 51	40'98	52'40	−11 42	0'0	0 3	Chyebassa ...	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. ... denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ... years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional ...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of March 1889.

Meteorological division.	District.	Station.	RAINFALL. Saturday, 23rd February 1889.	Sunday, 24th February.	Monday, 25th February.	Tuesday, 26th February.	Wednesday, 27th February.	Thursday, 28th February.	Friday, 1st March 1889.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of February.	Average total rainfall from 1st of February.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	0·17	0·86	41·24	52·13
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	0·10	0 08	44 48	57·13
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	0 22	1·06	37·00	51·50
		False Point ..	...	...	...	...	...	...	...	Nil	Nil	2·04	0·82	56 28	65 61
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	0·64	?	?	?
		Pipli .	...	...	...	...	...	...	...	Nil	Nil		?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	2·43	0·63	58·64	47·68
		Banki ..	...	...	...	...	...	...	...	Nil	Nil	1 23	0·65	45·08	51·42
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	0·33	0·72	53·01	57·05
		Kendrapara ...	...	...	...	...	...	...	...	Nil	Nil	1·38	0·74	40·59	54·14
		Jajpore	...	...	...	...	...	...	...	Nil	Nil	0·85	1·25	62 30	55 27
		Dharmsala ..	...	...	...	...	...	...	...	Nil	Nil	0·50	?	57·48	?
		Salipore	...	...	...	...	...	...	...	Nil	Nil	0·90	?	?	?
	Balasore ..	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	1·80	1·01	52 85	58·26
		Bhuddruck ...	...	...	...	...	...	...	...	Nil	Nil	0·38	1·36	49 39	53·05
		Sorah ...	...	...	...	...	...	...	...	Nil	Nil	1·00	0 96	51·22	52·00
		Balasore ..	...	...	...	...	...	...	...	Nil	Nil		1·40		59·16
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	1·06	1·02	56·91	53 86
		Baripodah ...	...	...	...	...	...	...	...	Nil	Nil	1 88	0·70	56·06	54·48
SOUTH-WEST BENGAL.	Midnapore ...	Contai ..	...	...	...	...	...	...	...	Nil	Nil	1·78	1·33	52·48	62·57
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	1·51	1·14	53 60	68 27
		Tumlook ...	...	...	...	...	...	...	...	Nil	Nil	2·40	1·55	67 20	52 75
		Midnapore ...	...	...	...	...	...	...	...	Nil	Nil	5·51	1 20	70·22	50 09
		Ghattal ...	...	...	...	...	...	...	...	Nil	Nil	1·27	0·89	58 36	55 44
		Kukrahaty ...	...	...	...	...	...	...	...	Nil	Nil	2 14	?	67·51	?
		Hersa .	...	...	...	...	...	...	...	Nil	Nil	1·67	?	53·81	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	4·94	?	56·03	?
		Garbeta ..	...	...	...	...	...	...	...	Nil	Nil	1·20	?	65·89	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	1 70	1·95	58·97	60 48
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	1·24	?	57 36	?
		Alipore Jail .	...	...	...	...	...	...	...	Nil	Nil	2 60	1·57	64 82	57·14
		Barrackpore ..	...	...	...	...	...	...	...	Nil	Nil	1·52	1·33	63 18	49 54
		Dum-Dum ..	...	...	...	...	...	...	...	Nil	Nil	2 38	1·19	66 56	52 90
		Baraset .	...	...	...	...	...	...	...	Nil	Nil	2 73	1 31	67 48	50 56
		Buseerhat ..	...	...	...	...	...	...	...	Nil	Nil	1·46	1·28	53 04	55 72
	Howrah ..	Howrah	...	...	...	...	...	...	...	Nil	Nil	2·63	1·16	68 35	53 26
		Moheereka (*Oolooberiah.*)	...	...	...	...	...	...	...	Nil	Nil	3 53	1·44	62·73	58 43
	Hooghly ..	Serampore ...	...	...	...	...	...	...	...	Nil	Nil	1·65	1·28	68·60	51·37
		Hooghly ...	...	...	...	...	...	...	...	Nil	Nil	1 00	1 26	67 91	49 37
		Jehanabad ..	...	...	...	...	...	...	...	Nil	Nil	1·18	1 28	62 88	50 32
	Burdwan ...	Culna ...	...	...	...	...	...	...	...	Nil	Nil	0 37	1·00	61 17	45 27
		Burdwan ...	...	...	...	...	...	...	...	Nil	Nil	0·36	0 86	47 21	48 66
		Cutwa ..	...	...	...	...	...	...	...	Nil	Nil		1 18		48 93
		Raneegunge ..	...	...	...	...	...	...	...	Nil	Nil	0·41	1 20	58·84	49 68
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	1·24	?	44 61	?
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	Nil	Nil	0·33	0 57	49·49	52 18
		Bishenpore ...	...	...	...	...	...	...	...	Nil	Nil	1 57	0 69	55 65	52 20
		Maliara ...	...	...	...	...	...	...	...	Nil	Nil	1 08	0 59	51 71	52 46
		Khatra ...	...	...	...	...	...	...	...	Nil	Nil	1·07	0·55	56 69	54 73
		Indas ...	...	...	...	...	...	...	...	Nil	Nil	0 54	?	41 94	?
		Kotalpore ...	...	...	...	...	...	...	...	Nil	Nil	0 83	?	49 56	?
		Anda .	...	...	...	...	...	...	...	Nil	Nil	0 95	?	39 01	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	1 31	?	58 03	?
		Raipore ..	...	...	...	...	...	...	...	Nil	Nil	0 73	?	55·90	?
		Sonamukhi ..	...	...	...	...	...	...	...	Nil	Nil	0·47	?	40 80	?
	Beerbhoom	Bh. Soory ...	...	...	...	...	...	...	...	Nil	Nil	1·11	0·91	55·54	54·61
		Hetampore .	...	...	...	...	...	...	0 27	1	0 27	1 14	0 97	49·08	55·24
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	0 86	0 83	71 88	52 27
		Bolpore ..	...	...	...	...	...	...	...	Nil	Nil	0 73	?	63 73	?
		Murarai ..	...	...	...	...	...	...	...	Nil	Nil		?		?
	Nuddea ...	Ranaghat ..	...	...	...	...	...	...	...	Nil	Nil	0·44	0 93	64·67	47 05
		Kishnaghur ..	...	...	...	...	...	...	...	Nil	Nil	0·51	1·05	60 93	46 79
		Chooadanga ..	...	...	...	...	...	...	...	Nil	Nil	0 80	1·12	53·97	52·14
		Meherpore ...	...	...	...	...	...	...	...	Nil	Nil	0 87	1·07	50 92	48·57
		Kooshtea	...	...	...	...	...	...	...	Nil	Nil	0 76	1·22	37 56	55·58
	Khoolna ..	Satkhira .	...	...	...	...	...	...	...	Nil	Nil	0·93	1·22	40·03	56·27
		Bagirhat ...	...	...	...	...	...	...	...	Nil	Nil	0 78	1 32	51 44	62 84
		Khoolna ...	...	...	...	...	...	...	...	Nil	Nil	0·40	1 13	49·20	56 04
	Jessore ..	Narail ..	...	...	...	...	...	...	...	Nil	Nil	1·00	1·18	31·72	47·32
		Jessore ...	...	...	...	...	...	...	...	Nil	Nil	0·30	1 11	57·30	55 43
		Jhenidah ...	...	...	...	...	...	...	...	Nil	Nil	0 65	1·13	36·94	54 51
		Magoorah ...	...	...	...	...	...	...	...	Nil	Nil	0 35	1 06	43·93	49·40
		Bongong ...	...	...	...	...	...	...	...	Nil	Nil	0 90	1·22	50·35	52 99
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	Nil	Nil	0·89	0·89	52 56	50·97
		Berhampore ...	...	...	...	...	...	...	...	Nil	Nil	0·90	1·00	43·33	52 31
		Lalbagh ...	...	...	...	...	...	...	...	Nil	Nil	0·81	0·72	48 92	51·57
		Azimgunge ...	...	...	...	...	...	...	...	Nil	Nil	0·82	0·76	?	51·91
		Jungipore ...	...	...	...	...	...	...	...	Nil	Nil	1·00	0·71	49·45	40 81
		Lalgola ...	...	...	...	...	...	...	...	Nil	Nil	1·14	0·65	54·23	51·86
		Jiagunge ...	...	...	...	...	...	...	...	Nil	Nil	0 81	?	49·26	?
		Akhriganj ...	...	...	...	...	...	...	...	Nil	Nil	1·41	?	50 08	?
		Patkabari ..	...	...	...	...	...	...	...	Nil	Nil		?		?
EAST BENGAL	Chittagong ..	Cox's Bazar ..	...	...	...	...	...	...	...	Nil	Nil	0·50	0·50	140·94	134·28
		Chittagong ...	...	...	...	...	...	...	...	Nil	Nil	0·90	1·03	105·98	94·90
		Kutubdia ...	...	...	...	...	...	...	...	Nil	Nil	0 58	?	117·52	?
		Satkania ...	...	...	...	...	...	...	...	Nil	Nil	0 26	?	91·07	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	Nil	Nil	1·54	1·12	76·39	84·82
		Ruma ...	...	...	...	...	...	...	...	Nil	Nil	1 04	0·70	70·99	79·30
	Backergunge	Patuakhally ..	...	...	...	...	...	...	...	Nil	Nil	2·67	1·16	88·27	88·71
		Perozepore ...	...	...	...	...	...	...	...	Nil	Nil	0 74	1·30	62 31	71 40
		Burrisal ...	...	...	...	...	...	...	...	Nil	Nil	1 45	1·01	67 44	68·77
		Bhola ...	...	...	...	...	...	...	...	Nil	Nil	0·80	0·79	76·03	82·84

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of March 1889—contd.

Meteorological Division.	District.	Station.	Saturday, 23rd February 1889.	Sunday, 24th February.	Monday, 25th February.	Tuesday, 26th February.	Wednesday, 27th February.	Thursday, 28th February.	Friday, 1st March.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of February.	Average total rainfall from 1st of February.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi*	...	...	...	...	...	...	...	Nil	Nil	1·53	?	50·83	?
		Bauphal	...	...	...	...	...	...	...	Nil	Nil	1·13	?	99·51	?
	Noakholly	Noakholly	...	...	...	...	...	...	...	Nil	Nil	1·5	1·06	108·54	108·86
		Fenny	...	...	...	...	...	...	...	Nil	Nil	1·45	1·20	105·98	107·71
		Harishpore	...	...	...	...	...	...	...	Nil	Nil	0·84	?	130·66	?
		Ramganj	...	...	...	...	...	...	...	Nil	Nil	1·54	?	89·94	?
	Furreedpore	Madaripore	...	...	...	...	...	...	...	Nil	Nil	0·66	1·01	46·77	56·87
		Furreedpore	...	...	...	...	...	...	...	Nil	Nil	0·82	1·46	53·33	57·70
		Goalundo	...	...	...	...	...	...	...	Nil	Nil	0·22	1·23	45·17	54·14
	Dacca	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0·10	1·46	61·68	71·58
		Dacca	...	...	...	...	...	...	...	Nil	Nil	0·99	1·15	53·69	59·51
		Naraingunge	...	...	...	...	...	...	...	Nil	Nil	1·04	1·18	63·93	60·79
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	0·20	1·21	47·64	51·23
		Joydebpore	...	...	...	...	...	...	...	Nil	Nil	0·24	?	59·49	?
	Hill Tipperah	Agartola										0·52	1·03	54·43	62·68
	Tipperah	Comilla	...	...	...	...	...	...	...	Nil	Nil	1·26	0·87	70·17	70·89
		Chandpore	...	...	...	...	...	...	...	Nil	Nil	1·04	0·91	58·27	78·85
		Brahmunberia	...	...	...	...	...	...	...	Nil	Nil	0·97	1·31	70·13	62·59
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	0·63	?	60·81	?
		Nasirnagar	...	...	...	...	...	...	...	Nil	Nil	0·40	?	58·99	?
		Daudkandi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·18	?
		Kasba	...	...	...	...	...	...	...	Nil	Nil	0·05	?	56·65	?
		Laksham	...	...	...	...	...	...	...	Nil	Nil	2·29	?	80·31	?
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	Nil	Nil	0·21	0·98	83·53	71·06
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	0·24	1·22	80·12	56·64
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	0·21	1·16	70·02	75·02
		Jamalpore	...	...	...	...	...	...	...	Nil	Nil	0·40	1·22	64·98	66·43
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	Nil	0·61	77·62	72·35
		Subornakhally	...	...	...	...	...	...	...	Nil	Nil	0·06	?	62·14	?
		Durgapore	...	...	...	...	...	...	...	Nil	Nil	0·20	?	110·01	?
		Sherepore town	...	...	...	...	...	...	...	Nil	Nil	0·45	?	?	?
		Dewanganj											?		?
NORTH BENGAL.	Pubna	Pubna	...	...	...	...	...	...	...	Nil	Nil	0·64	1·09	40·83	54·92
		Seraigunge	...	...	...	...	...	...	...	Nil	Nil	0·20	1·23	44·09	54·10
	Bogra	Sherpore	...	...	...	...	...	...	...	Nil	Nil	1·19	1·12	43·68	58·91
		Nowkhilla	...	...	...	...	...	...	...	Nil	Nil	1·15	1·10	51·82	55·78
		Bogra	...	...	...	...	...	...	...	Nil	Nil	0·44	0·95	43·31	61·54
		Panchbibi	...	...	...	...	...	...	...	Nil	Nil	0·55	0·60	46·99	56·37
	Rajshahye	Beauleah	...	...	...	...	...	...	...	Nil	Nil	1·01	0·80	33·86	53·70
		Nattore	...	...	...	...	...	...	...	Nil	Nil	0·35	0·90	61·98	55·88
		Naogaon	...	...	...	...	...	...	...	Nil	Nil	1·59	?	40·37	?
		Lalpore	...	...	...	...	...	...	...	Nil	Nil	0·40	?	40·03	?
		Manda	...	...	...	...	...	...	...	Nil	Nil	0·20	?	32·84	?
	Maldah	Maldah	...	...	...	...	...	...	...	Nil	Nil	0·30	0·52	51·85	52·24
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	0·69	0·66	35·76	57·14
		Gajol	...	...	...	...	...	...	...	Nil	Nil	0·95	?	40·53	?
		Sibganj	...	...	...	...	...	...	...	Nil	Nil	0·56	?	48·71	?
	Dinagepore	Mohadebpore	...	...	...	...	...	...	0·04	1	0·04	0·52	0·66	41·24	59·00
		Churamon	...	...	...	...	...	...	...	Nil	Nil	1·72	0·33	50·79	53·55
		Raigunge	...	...	...	...	...	...	...	Nil	Nil	1·33	0·53	53·54	53·83
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	0·57	0·52	50·79	64·52
		Baloorghat	...	...	...	...	...	...	...	Nil	Nil	0·51	0·36	42·13	54·74
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	0·57	?	53·02	?
	Rungpore	Bhawanigunge (*Gyebanda*)	...	...	...	...	...	...	...	Nil	Nil	0·51	0·61	48·55	62·26
		Rungpore	...	...	...	...	...	...	...	Nil	Nil	0·93	0·42	55·30	75·05
		Kurigram	...	...	...	...	...	...	...	Nil	Nil	0·61	0·54	76·51	73·49
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	Nil	Nil	1·23	0·52	56·46	85·72
		Ulipore	...	...	...	...	...	...	...	Nil	Nil	0·78	?	56·68	?
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	Nil	Nil	0·88	0·28	107·10	117·98
		Alipore Duar	...	...	...	...	...	...	...	Nil	Nil	1·10	?	82·44	?
		Fallacotta	...	...	...	...	...	...	...	Nil	Nil	0·80	?	92·57	?
		Debiganj	...	...	...	...	...	...	...	Nil	Nil	1·66	?	64·28	?
		Bhogotpore (Nayrakatta).	...	...	...	...	...	...	...	Nil	Nil	1·62	?	?	?
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	Nil	Nil	1·10	0·35	93·05	93·41
		Cooch Behar	...	...	...	...	...	...	...	Nil	Nil	2·55	0·29	94·43	118·1
		Mickligunge	...	...	...	...	...	...	...	Nil	Nil	2·47	0·34	78·95	108·49
		Matabhanga	...	...	...	...	...	...	...	Nil	Nil	1·95	0·30	76·21	117·13
	Darjeeling Hill.	Buxa	...	...	...	...	...	...	...	Nil	Nil	2·70	0·86	160·29	193·67
		Silliguri	...	...	...	...	...	...	...	Nil	Nil	1·60	0·14	84·63	103·53
		Darjeeling	0·04	0·04	...	...	...	...	...	2	0·08	2·65	0·82	92·67	109·53
		Kalimpong	...	...	...	...	...	...	...	Nil	Nil	1·39	0·63	72·53	84·15
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	Nil	Nil	0·20	0·44	49·56	70·9
		Arrareah	...	...	...	...	...	...	...	Nil	Nil	0·36	0·53	55·47	64·31
		Purneah	...	...	...	...	...	...	...	Nil	Nil	0·37	0·56	46·84	61·48
		Gondwara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Balarumpore	...	...	...	...	...	...	...	Nil	Nil	0·75	?	?	?
		Matiari	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Kaliaganj	...	...	...	...	...	...	...	Nil	Nil	0·36	?	59·67	[illegible]
	North Bhagulpore.	Maddapore	...	...	...	0·02	...	...	...	1	0·02	1·28	0·56	61·08	[illegible]
		Soopool	...	...	...	...	...	...	...	Nil	Nil	1·01	0·39	45·53	[illegible]
		Protabganj	...	...	...	...	...	...	...	Nil	Nil	0·44	?	41·14	?
	Durbhunga	Tajpore	...	...	...	...	...	...	0·01	1	0·01	1·76	0·38	46·04	[illegible]
		Durbhunga	...	...	...	0·02	...	...	0·07	2	0·09	0·74	0·43	39·18	[illegible]
		Madhubani	...	...	...	0·05	...	...	...	1	0·05	0·87	0·39	44·33	[illegible]
		Bahera	...	...	...	0·05	...	...	...	1	0·05	0·85	?	55·46	?
		Rosnera	...	...	...	...	...	...	...	Nil	Nil	0·90	?	47·09	?
	Mosufferpore	Sitamarhi	...	...	...	0·07	...	...	0·03	2	0·10	0·8	0·30	36·52	43·4
		Mozufferpore	...	...	...	0·12	...	...	0·08	2	0·20	1·64	0·41	46·03	46·1
		Hajipore	...	...	...	0·04	...	...	...	1	0·04	1·90	0·46	49·32	48·60
		Paru	...	...	...	...	...	...	...	Nil	Nil	1·89	?	40·09	?
		Mahua	...	...	...	...	...	...	...	Nil	Nil	1·21	?	40·19	?
		Suhar	...	...	...	...	...	...	...	Nil	Nil	0·80	?	42·94	?
		Pupri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	25·56	?
	Chumparun	Motihari	...	...	...	0·07	...	...	0·04	2	0·11	1·31	0·35	40·63	46·12
		Bettiah	...	...	...	...	...	...	0·13	1	0·13	2·15	0·41	49·54	49·13
		Bagaha	...	...	...	0·09	...	...	0·09	2	0·18	1·33	?	50·22	?
		Burhurwa	...	...	...	0·05	...	...	0·40	2	0·45	1·63	?	43·17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 1st of March 1889 — concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 23rd February 1889.	Sunday, 24th February.	Monday, 25th February.	Tuesday, 26th February.	Wednesday, 27th February.	Thursday, 28th February.	Friday, 1st March.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of February.	Average total rainfall from 1st of February.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR —*concluded*.	Sarun	Gopalgunge ..	...	...	0'12	...	...	...	0'30	2	0'42	2'05	0'41	41 34	44'50
		Sewan ...	...	...	0'12	...	...	...	0'01	2	0 13	1 02	0'48	44 20	41'47
		Chuprah ...	...	...	...	...	...	...	0'34	1	0 34	1'47	0'34	39 25	41 15
SOUTH BEHAR	Shahabad	Buxar ..	...	...	0'11	...	...	...	...	1	0 11	1'22	0 37	43'29	38'94
		Dehree ...	...	...	...	...	...	...		Nil	Nil	1'01	0 07	44 98	39'21
		Bhuboosh ...	...	...	...	...	...	...	0 15	1	0 15	0 93	0'50	41'62	41'93
		Sasseram ...	...	...	...	...	...	...		Nil	Nil	0'66	0 46	42 89	41'15
		Arrah ..	...	...	...	...	...	...	0 18	1	0 18	1'26	0'46	40 34	40'76
		Mohaniah ...	...	...	...	...	...	...	..	Nil	Nil	1'20	•	?	?
	Gya ..	Aurungabad...	...	...	...	...	...	...	0 08	1	0'08	0'98	0 34	54 95	43'26
		Gya ...	...	...	...	...	...	...	0 80	1	0'80	3'93	0 51	56 01	43'18
		Nowadah ...	...	...	...	...	...	...	0 07	1	0'07	0'93	0 46	50'90	40'56
		Jehanabad ...	...	...	...	...	...	...		Nil	Nil	1'68	0'40	48 87	41'13
		Arwal ...	...	...	...	...	...	...	...	Nil	Nil	1 94	?	40 45	?
		Daudnagar ...	...	...	...	...	...	...	...	Nil	Nil	0'45	•	43 15	?
		Sherrghati ...	...	...	...	...	...	...	...	Nil	Nil	1'10	•	35 35	?
		Rajauli ...	...	...	...	...	...	...	..	Nil	Nil	0'55	?	28 58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	0'65	•	38 71	?
	Patna ...	Patna .	...	...	...	...	...	...	0'11	1	0'11	1'63	0 39	48'37	42'36
		Dinapore ...	...	...	...	...	...		0'20	1	0 20	1'41	0'30	45 11	41'88
		Behar ..	...	...	...	...	...	...	...	Nil	Nil	2'68	0'54	58 34	42'55
		Barrh ...	...	...	...	...	...	...	...	Nil	Nil	2 71	0 43	59 41	40'22
		Bickram ...	...	...	...	...	...	...	...	Nil	Nil	0'60		40'28	?
		Hilsa ...	...	...	...	...	...	...	...	Nil	Nil	2'10	•	49 88	?
	Monghyr	Begooserai ..	...	...	...	...	...	...	...	Nil	Nil	2'76	0'53	51'58	40'78
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	0 92	0'50	56'83	47 03
		Jamui ...	...	...	...	...	...	...	...	Nil	Nil	1 04	0'60	52'33	43'72
		Gogri ...	...	...	...	...	...	...	...	Nil	Nil	0'63	?	64'67	?
		Sheikpura ...	...	...	...	...	...	...	...	Nil	Nil	1 10	?	60'73	?
	South Bhagulpore	Bhagulpore ..	...	...	...	...	...	...	...	Nil	Nil	1'70	0'48	56 73	42'68
		Banka ...	...	...	...	...	...	...	...	Nil	Nil	0 79	0'50	44'01	45'28
		Kolgong ..	...	...	...	...	...	...		Nil	Nil	1'14	?	53 84	?
	Sonthal Pergunnahs	Rajmehal ...	...	...	...	...	...	...	...	Nil	Nil	0'82	0'27	48'72	52'33
		Godda ...	...	...	...	...	...	...	...	Nil	Nil	0'88	0 55	52'17	45 72
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0'78	0 33	65'13	55 63
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	1'14	0 72	54 43	53 94
		Deoghur ..	...	...	...	...	...	...		Nil	Nil	0'45	0 64	83'83	50 77
		Jamtara ...	...	...	...	...	...	...	...	Nil	Nil	0 51	0'35	57'04	45 59
		Mohagama ...	...	...	...	...	...	...		Nil	Nil	2'45		?	?
		Nunihat ...	...	...	...	...	...	...		Nil	Nil	0'68	•	29'74	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	...	...	Nil	Nil	1 26	0'67	58'13	48'14
		Hazaribagh ...	...	...	...	...	...	0'02	...	1	0'02	0 92	0'75	55 88	48 78
		Semuguran .	...	...	...	...	...	...	...	Nil	Nil	0 77	0'49	56 37	46 29
		Manudi Hills	...	...	...	...	...	...	...	Nil	Nil	0 29	0'62	55 81	49 02
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	1 55	0 30	64 90	62 80
		Barhi ...	...	...	...	...	...	0'03	...	1	0 05	1'02	?	51 25	•
		Chatra ...	...	...	...	...	...	...	...	Nil	Nil	3'81	?	57 96	•
		Karagdeha ...	...	...	...	...	...	...	...	Nil	Nil		?		•
		Ramghar ...	...	...	...	...	...	...	...	Nil	Nil		?		•
	Lohardugga ...	Lohardugga ...	...	...	...	...	...	...	...	Nil	Nil	2'70	0'36	48'64	52'97
		Ranchi ...	...	...	...	...	...	...	...	Nil	Nil	0 75	1'13	53 64	53'28
		Palamow ...	...	...	...	...	...	...	...	Nil	Nil	0'70	0'50		43'87
		Silli ...	...	...	...	...	...	...	...	Nil	Nil		?		?
		Balumat ...	...	...	...	...	...	...	0'32	Nil	Nil	0'50	?		?
		Hossainabad...	...	...	...	...	...	...	...	1	0 32		?		?
		Garwah ...	...	...	...	...	...	...	...	Nil	Nil		•		?
	Singbhoom .	Chyebassa .	...	...	...	...	...	...	...	Nil	Nil	0'33	0'85	40'98	52'55
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	0'72	?	55'67	?
		Ghatsilla ...	...	...	...	...	...	...	...	Nil	Nil	0'55	?	55'19	?
		Baharagura..	...	...	...	...	...	...	...	Nil	Nil		?		?
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	Nil	Nil	0'57	1'00	58'06	40'99
		Gobindpore ...	...	...	...	...	...	...	...	Nil	Nil	0'58	0'88	37 53	45 93
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	2'10	?	55 43	?
		Barrabhoom...	...	...	...	...	...	...	0'01	1	0'01	0'66	?	51'30	•
		Jhalda, ...													
		Chas ...													

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 5th March* 1889.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 1st MARCH 1889.

Weather at the close of the previous week in Bengal was fine, and of the usual character which marks the end of the cold season and the gradually commencement of the hot-weather conditions Light and rather variable winds, alternating sometimes between north and south, prevailed, but weather was fine and rainless over the whole province. At this time there was, however, a very deep barometric depression lying over the Scind frontier, and on the 23rd, or the first day of the present week, the depression increased decidedly in intensity. On the 24th the very powerful depression had moved to the Punjab, and on the 25th it had either filled up or passed away in an easterly direction across the hills. The weather was during this period very much disturbed over the whole of Northern India, and though the depression was far removed from the province of Bengal, yet on the 25th the disturbed conditions even reached as far as North Behar in a modified form, and rain showers were received in the districts of Durbhunga, Mozufferpore, Chumparun, and Sarun. These disturbed conditions, however, rapidly disappeared, and weather again became fine over the whole province, and there were no further changes of importance until quite the close of the week. On February 28th the barometric changes occurring over the province, though small, were decidedly irregular, showing apparently that disturbed conditions were again commencing. On March 1st the irregular barometric changes continued in Bengal and over Central India, and a distinct but shallow barometric depression was formed which stretched from the Central Provinces across to Upper Scind. Here, again, on this day, though the actual depression did not reach Bengal and Behar, a few showers of rain commenced to fall over Behar, but in the majority of cases the amounts were very small. During the week very light winds have generally been reported, and there has at the southern stations been a tendency to the setting in of southerly winds and for several days, particularly during the first half of the week, southerly winds, were reported in South Bengal. With the setting in of southerly winds, temperature and humidity increased rapidly during the first half of the week, though when northerly winds again set in during the second half of the week, temperature and humidity decidedly fell. On the whole, however, there has been a decided increase in temperature during the week througout the province. It will thus be seen that the week under review has again been one in which the transition conditions between the cold and hot seasons have been strongly marked.

Pressure.—The pressure oscillations during the week have had a decided upward tendency, and though the mean pressure of the province for the previous week had been almost absolutely normal, the average pressure for the present week has been about 0·05 inch in excess of the normal. This excess pressure is also fairly equally distributed over the province.

Temperature.—The principal point to be noted in the temperature changes during the week has been the steady increase which has taken place. Thus the average of the mean daily temperature of the various stations in the province for the week ending March 22nd was 69°, for the present week the average shows 73°; or there has been an average increase in the mean temperature of 4° during the week. For the present week the general average temperature has been slightly in excess of the normal, the mean excess showing about 0 7°

The following table will show the general range of temperature throughout the province during the week. The table gives the average maximum, minimum and mean temperatures at nine typical stations in the province for the week and their variation from the normal mean of the period:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 1st March 1889.

	Normal mean maximum temperature for the week ending 1st March.	Actual mean maximum temperature for the week ending 1st March 1889	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 1st March.	Actual mean minimum temperature for the week ending 1st March 1889	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 1st March.	Actual mean daily temperature for the week ending 1st March 1889.	Variation of actual mean from the normal.
Cuttack	93·5	94·4	+0·9	68·3	67·7	−0·6	80 9	81·1	+0·2
Calcutta	85 6	84 3	−1 3	65 0	64 9	−0 1	75 3	74 6	−0 7
Dacca	86·5	87 5	+1 0	62·5	62 4	−0 1	74·5	74·9	+0 4
Burdwan	87 4	88 8	+1 4	62 6	64 6	+2 0	75 0	76 7	+1·7
Patna	83 8	82 0	−1 8	56 1	60 7	+4 6	70·0	71 3	+1 3
Gya	86 3	84 4	-·9	59 6	62 6	+3·0	73·0	73 5	+0 5
Purneah	83·9	80·2	-3 7	54·3	58 6	+4·3	69 1	69 4	+0 3
Hazaribagh	82 3	82 5	+0 2	57·6	61·6	+4 0	70·0	72·1	+2·1
Darjeeling	48·6	49 6	+1 0	36·9	40 2	+3 3	42·7	44 9	+2·2

Rainfall.—Except for the few showers in Behar alluded to previously, the whole province has been practically rainless throughout the week. Even in Behar the average fall has been less than a tenth of an inch, and hence it is of no practical importance.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 1st of March 1889:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week			Rainy days.			Since 1st of February.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	97 4	60 6	87 2	68·8	78·0	+0·2	Nil	0·15	—0·15	0·0	0·3	—0·3	0·93	0·91	51·47	54·40
South-West Bengal ...	92 2	67 0	87 1	64·9	76 0	+0·7	Nil	0·19	—0·19	0·0	0·4	—0·4	1·28	1·10	56 62	53 09
East Bengal	90·6	52·5	85·3	61 4	73·4	+0·6	Nil	0·20	—0·20	0 0	0·4	—0·4	0·83	1·07	71·91	75·37
North Bengal	88 3	50·9	82·8	57·1	70 0	+0·3	Nil	0·07	—0·07	0 0	0 3	—0·3	0·97	0·61	56·54	71 06
North Behar	81·2	55·5	78·9	59·8	69·4	+0·5	0·10	0·02	+0·08	1·1	0·2	+0·9	1·18	0·43	45·67	49·22
South Behar	88 3	54·8	83·3	61 4	72·3	+1·2	0·07	0 02	+0·05	0 3	0·1	+0·2	1 39	0·44	51·48	44·31
Chutia Nagpur	86 7*	56 1*	82·9*	61 3*	72 1*	+1·5	0·01	0·08	—0·07	0·1	0·2	—0·1	0·70	0·69	51·67	50·25

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 5th March 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 24th February to 2nd March 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
Feb	24th	140 5	10·1	29·981	74 3	84·4	19 6	64·8	69 6	0·663	67 0	79	SW and SW by S	34	Nil	Partially cloudy, △.
„	25th	140·4	10 5	·949	75·6	86 2	19 6	66·6	68 4	·509	64 0	70	SW by S, W and SW	100	„	Chiefly clear △.
„	26th	141·2	9 9	·957	7[illegible]·7	86 8	21·5	65 3	69·0	62[illegible]	65·[illegible]	72	SW by W, NNE and calm.	42	„	Partially cloudy △.
„	27th	140·[illegible]	9 5	993	75·0	85 7	21 9	6[illegible] 8	66 5	·539	6[illegible]·0	64	WNW calm and variable.	38	„	Clear. △.
„	28th	140·0	9 3	965	75·0	87 3	[illegible]3 4	63 9	66 3	·533	6[illegible] 8	64	WSW, WNW and W	40	„	Chiefly clear
March	1st	143 7	9 7	·948	78 1	89 3	22·1	67·2	72·4	723	69 6	76	WSW and calm	39	„	Chiefly clear. △.
„	2nd	137 8	8 8	30 014	75 0	84 7	20 3	64 4	69 4	·646	66 2	75	SSW and variable	122	0 28	Partially cloudy, o, g, p, t, <, /.

	Inches.
The mean pressure of the seven days	29·972
The average pressure of the corresponding period for 24 years, S. G.'s Office ..	29·889
	Hours
The total number of hours of bright sunshine	67·8
The maximum possible number of hours of sunshine	81 3
	°
The mean temperature of the seven days	75 5
The average temperature of the corresponding period for 24 years, S. G.'s Office	76 8
The extreme variation of temperature	25 5
The maximum temperature	89 3
	Miles
The highest velocity of the wind in one hour	11
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	45
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	64
	Inches
The total fall of rain from 24th February to 2nd March 1889 ..	0 28
The average fall of the corresponding period for 24 years, S. G.'s Office ..	0 42
The total fall from 1st January to 2nd March 1889	2 90
The average fall of the corresponding period for 24 years, S. G.'s Office ..	1·72

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, < lighting, △ dew, / strong wind

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 4th March 1889.

Abstract of the Results of the Barometrical and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of February 1889.

		Inches.	Date.
The mean pressure at 10 A.M during the month	... ...	30·072	
		°	
The mean temperature during the month	... ...	70·9	
The highest temperature during the month	... ...	89·0	28th.
The lowest temperature during the month	... ...	50·9	6th.
The absolute range of temperature during the month	... ...	38·1	
The mean daily range of temperature during the month	...	22·4	
The greatest range of temperature in one day during the month	...	29 0	10th.
		%	
The mean 10 A.M. humidity during the month	... ...	61	
		Inches.	
The mean 10 A.M. vapour tension during the month	.. ...	·509	
The total rainfall of the month	... ...	2·62	
The greatest fall in 24 hours	... ...	1·14	12th.
		Days.	
The number of rainy days in the month	... ...	3	

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 4th March 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th February to 2nd March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours
1889.		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
February ...	24th ..	30·047	76 0	86 3	20 6	65·7	78 8	73·6	·760	71·0	77	...
" ...	25th .	·034	77 4	88 6	22 5	66 1	80 6	69·6	·578	63 0	56	
" .	26th ..	·043	77 2	88 4	22·5	65 9	79·6	69·8	·598	64 0	59	......
" ..	27th ..	·089	76 1	88 2	24·2	64·0	79 9	66·4	·469	57·2	46	...
" ...	28th ...	·057	76 8	89·0	24 5	64 5	80·8	64 6	·394	52·3	38	.
March ...	1st ..	·043	79 8	91 5	23·4	68·1	82·8	76 3	·823	73 4	74	.
" ...	2nd ...	·114	75 7	86·7	22 0	64 7	75·2	69·6	·650	66·4	75	0·45

		Inches.
The mean 10 A.M. pressure of the seven days	... ...	30·061
		°
The mean temperature of the seven days	... ...	77·0
The extreme variation of temperature	. ...	27·5
The maximum temperature	... ...	91·5
		%
The mean 10 A.M. relative humidity of the seven days	... ...	61
		Inches.
The total fall of rain from 24th February to 2nd March 1889	...	0·45

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 4th March 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE birth and death returns of the principal Municipalities in Bengal yielded the following results for the week ending 16th February 1889 :—

1. The ratios per mille of births and deaths for the period above referred to stand at—for births 23· and for deaths 24·8, the records of the preceding week ending 9th February presenting 21·9 and 23 9 respectively; there was thus an improvement in the registration of both births and deaths.

2. In the following Municipalities births and deaths were recorded at the highest rates :—

Births.

	Ratio per *mille.*
Naraingaaj	53·8
Hughli	45·7
Puri	44·1
Santipore	42·0
Rampore Beauleah	39·4
Utterpara	37 ?
Serampore	37 3
Monghyr	37·1
Jessore	36 7
Kishnaghur	34·1
Comillah	30·8
Durbhanga	30·7

Deaths.

	Ratio per *mille.*
Naraingunj	53 8
Suburbs of Calcutta	46·3
Burdwan	41 2
Puri	37 8
Comillah	34 7
Serampore	31 4

3. In comparison with the results of the preceding week, bowel-complaints alone exhibited noticeable increase of mortality Small-pox and injury presented no variations, and the fatal results from the other diseases showed only fractional differences, *vide* figures quoted below :—

	Ratio per *mille* during the weeks ending— 16th Feb. 1889.	9th Feb. 1889.
Cholera	3 2	2 8
Small-pox	·2	·2
Fever	8 8	9 5
Bowel-complaints	4 2	2 9
Injury	·5	·5
Other causes	7 9	8·0

4. Of the diseases mentioned in the foregoing table, cholera, fever, bowel complaints and the maladies coming under the head of "Other causes" are reported to have been conspicuously fatal in the following Municipalities :—

Cholera.

	Ratio per *mille.*
Naraingunj ...	20·7
Suburbs of Calcutta ...	9·9
Howrah ...	8·6

Fever.

	Ratio per *mille.*
Comillah ...	23 1
Purneah ...	20·8

Bowel-complaints.

	Ratio per *mille.*
Naraingunj ...	12·4
Hughli ...	10 7
Suburbs of Calcutta ...	10·1

Other causes.

	Ratio per *mille.*
Puri ..	21 0
Serampore ...	19 6
Burdwan .	13·7
Bhagulpore ...	10 9
Monghyr ...	10 8
Suburbs of Calcutta ...	10·5
Santipore ...	10 5

5. The mortality referable to *Sex, Class* and *Age* stood as exhibited below :—

According to Sex.

	Ratio per *mille.*
Males	27·7
Females	21·5
Ratio of male deaths to every 100 female deaths	146

According to Class.

	Ratio per *mille.*
Christians	34 8
Hindus	25·7
Mahomedans ...	22·6

According to Age.

	Ratio per *mille.*
Under 1 year ...	192·1
1 and under 5 years ...	26·5
5 „ 10 „ ...	8·3
10 „ 15 „ ...	7·7
15 „ 20 „ ...	12 0
20 „ 30 „ ...	17·5
30 „ 40 „ ...	18·7
40 „ 50 „ ...	19·8
50 „ 60 „ ...	29·5
60 years and upwards ...	73 0

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 4th March 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 16th February 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION			BIRTHS							MORTALITY ACCORDING TO— Disease															Sex				
					Number of—			Ratio per 1,000 of population per annum				Deaths from—							Ratio per 1,000 of population per annum								Deaths.		Ratio per 1,000 of population per annum		
DISTRICTS	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths
Burdwan ...	Burdwan ...	18,063	16,017	34,080	6	8	14	9.2	12.2	21.4	75	3	.	10	5	..	9	27	4.6		15.3	7.6	...	13.7	41.2	22.9	16	11	46.1	35.7	145
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	4	10	9.3	6.2	15.5	150			3	3	.	3	9	.	..	4.6	4.6	...	4.6	13.9	21.7	9	...	27.6	...	No female death.
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	22	12	34	20.[illegible]	[illegible]	45.7	183			7	8		5	20	..	...	9.4	10.7	..	6.7	26.9	13.4	14	6	38.0	16.0	233
Serampore ...	Serampore ...	13,559	12,937	26,496	7	12	19	13.7	23.6	37.3	58			2	4	.	10	16		..	3.9	7.9	...	19.6	31.4	41.2	7	9	26.8	36.2	77
	Utterpara ...	3,046	2,464	5,510	2	2	4	18.8	18.8	37.7	100			..	.	.	1	1	..	...	.	.	...	9.4	9.4	9.4	1	.	17.1	.	No female death.
Howrah ...	Howrah ...	53,153	37,660	90,813	20	12	32	11.4	6.9	18.8	166	15		6	4		13	38	8.6	...	3.4	2.3		7.4	21.8	27.5	25	13	24.5	18.0	191
	Bali ...	7,836	6,979	14,815	1	3	4	3.5	10.5	14.0	33	2			2		1	5	7.0	..	..	7.0	..	3.5	17.5	31.6	2	3	13.3	23.4	66
24-Pergunnahs	Suburbs of Calcutta	147,205	104,234	251,459	54	41	95	11.[illegible]	8.5	19.6	131	48	2	68	49	6	51	224	9.9	4	14.1	10.1	1.2	10.5	46.3	45.1	142	82	50.2	40.9	173
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	7	11	18	13.2	20.8	34.1	63			3		.	3	6		.	5.7	..		5.7	11.4	13.2	2	4	7.8	14.6	50
	Ranaghat ...	4,028	4,655	8,683							..						.		.	.	.	...	.		.	6.0	..		..		...
	Santipore ...	13,708	15,979	29,687	18	6	24	[illegible]1.5	10.5	42.0	300		.	7	1		6	14			12.3	1.7	...	10.5	24.5	5.3	9	5	34.1	16.3	180
Jessore ...	Jessore ...	4,830	3,665	8,495	4	2	6	24.5	12.2	36.7	200			3	1		.	4		..	18.4	6.1		..	24.5	24.5	1	3	10.8	42.6	33
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	9	6	15	23.6	15.8	39.4	150	1		4			..	5	2.6	...	10.5	..	..	..	13.1	31.5	4	1	19.3	5.8	400
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	3	1	4	[illegible]9.6	6.5	[illegible]	300			1	1			2			6.5	6.5	..		13.0	45.6	1	1	10.3	17.6	100
Dacca ...	Dacca ...	42,782	37,379	80,161	23	15	38	14.9	9.7	24.7	153	4	1	13	3	1	15	37	2.6	·6	8.4	1.9	·6	9.7	24.0	20.1	19	18	23.1	25.0	105
	Narainganj ...	7,605	4,956	12,561	8	5	13	53.1	20.7	51.8	160	5		3	3		2	13	20.7	...	12.4	12.4	..	8.3	53.8	20.7	6	7	41.0	73.4	85
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	1	2	2.3	2.3	4.7	100	.		1	1		1	3	..	..	2.3	2.3	...	2.3	7.0	14.1	3	-	11.7	...	No female death.
Tipperah ...	Comillah ...	8,153	5,353	13,506	4	4	8	15.4	15.4	30.8	100			6	.		3	9		...	23.1		..	11.6	34.7	15.4	3	6	19.1	59.3	50
Patna ...	Patna City ...	78,762	81,475	160,237	19	17	36	6.2	5.5	11.7	111	1	1	[illegible]	8		12	42	3	·3	6.5	2.6	...	3.9	13.6	13.3	28	14	18.5	8.9	200
Gya ...	Gya ...	38,290	37,831	76,121	16	10	26	10.9	6.8	17.8	160	1		12	..	.	13	2[illegible]	7	.	8.2	.	.	8.9	17.8	27.3	13	13	17.7	17.9	100
Shahabad ...	Arrah ...	20,960	22,505	43,465	7	8	15	8.4	9.5	17.9	87			5			1	6			6.0	.		1.2	7.2	3.6	1	5	2.5	11.6	20
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	6	3	9	7.3	3.7	10.9	200			3	2	2	6	13			3.7	2.4	2.4	7.3	15.8	10.9	6	7	13.5	18.5	85
Durbhanga...	Durbhanga ...	33,774	32,322	66,096	20	19	39	15.7	14.9	30.7	105	...		14			5	19	.		11.0			3.9	14.9	17.3	10	9	15.4	14.5	111
Sarun ...	Chupra ...	26,044	27,205	53,249	11	10	21	10.7	9.8	20.5	110	.		5	3	2	6	16	.		4.9	2.9	1.9	5.9	15.6	9.8	8	8	16.0	15.3	100
Bhagulpore...	Bhagulpore ...	29,640	27,813	57,453	13	17	30	11.8	15.4	27.2	76	..	.	8		1	12	21			7.2	.	·9	10.9	19.0	24.4	9	12	15.8	22.4	75
Monghyr ...	Monghyr ...	28,154	29,366	57,520	22	19	41	19.9	17.2	37.1	115	1	..	10	5	1	12	29	9		9.0	4.5	·9	10.8	26.2	15.4	20	9	36.9	15.9	2.2
Purneah ...	Purneah ...	8,463	6,553	15,016	4	2	6	13.9	6.9	20.8	200		..	6		..	1	7	.		20.8		..	3.4	24.2	38.1	5	2	30.7	15.9	250
Puri ...	Puri ...	13,247	11,537	24,784	9	12	21	18.9	25.2	44.1	75	.		4	4	..	10	18		.	8.4	8.4	[illegible]	21.0	37.8	23.1	10	8	34.3	38.1	125
	Total ...	702,890	619,691	1,322,581	3.2	262	584	12.7	10.3	23.0	122	81	4	224	107	13	201	630	3.2	2	8.8	4.2	·5	7.9	24.8	23.9	374	256	27.7	21.5	146

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been [illegible] under the authorized form of age classification.

Districts.	Names of Municipalities.	13. Mortality according to Class — Deaths among — Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14. Class — Ratio per 1,000 of population per annum — Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	15. Age — Deaths — Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16. Age — Ratio per 1,000 of population per annum — Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	1	18	8	...	...	358.1	39.5	40.5			3	3	3		1	4	3	3	2	5	236.4	69.1	66.9	......	16.6	26.3	22.6	35.3	42.4	175.4
Midnapore	Midnapore	..	7	2	...	...		14.0	14.4		..	.	..	...	1	...	2	2	1	...	3	......	...	..	17.1	......	14.2	18.8	14.0	.....	85.2
Hughli	Hughli and Chinsurah	..	16	4	..	..	...	26.3	30.5	.	.	4	1	3	..	...	...	2	3	2	5	220.6	19.5	44.8	.....	..	.....	14.8	30.2	31.8	103.7
Serampore	Serampore	...	13	3	...	...	...	20.8	166.3	...	.	3	..	.	..	...	3	1	3	1	5	219.7	...	.	......		29.0	10.5	46.2	27.2	186.9
	Utterpara	...	1	...	..	...	.	9.8	...	.	...	1	..		...	.	..	...	...	...	..	323.0	...	......	......	.. ..	......	......	.. ..	......	......
Howrah	Howrah	.	32	6	..	.	...	24.4	15.2		..	8	5	.	..	4	7	5	5	1	3	201.6	46.9	......	..	23.4	16.0	13.5	22.1	9.5	41.6
	Bali	...	3	2	...	...	..	11.6	79.3	..	.		.		1	...	...	1	..	1	2	...	......	......	43.8	.. ...	... ..	18.6	......	49.6	142.1
24-Pergunnahs	Suburbs of Calcutta	5	154	65	...	...	64.2	53.4	35.0	..	..	27	25	9	5	12	42	42	19	17	26	294.6	80.5	23.6	14.5	34.6	37.6	42.4	29.1	52.1	95.0
Nuddea	Kishnaghur		6	...	...	...	...	16.7	.	..	...	4	.	...	...	...	...	...	...	...	2	419.4	...	......	......	......	... ..	...	......	......	60.2
	Ranaghat	...	...	..	...	...	..	..	...	..	...	.	..	..	..	...	.	...	...	...	...	...	... ..	......	... ..	......	... .	... ..	.....	......	......
	Santipore	...	8	6	...	...	...	20.1	34.9	...	...	8			...	1	1	2	1	...	1	492.3	......	......	......	23.4	10.6	24.0	14.8	... .	26.5
Jessore	Jessore	...	3	1	...	..	..	34.6	13.6	...	...	...	..	..	..	...	2	1	1	...	.	......	.....	... ..	... ..	... ..	51.6	34.0	49.5	......	......
Rajshahye	Rampore Beauleah	...	2	3	...	.	...	10.5	15.9	.	..	1		...	...	..	...	2	1	...	1	128.1	......	......	...	...	..	28.9	21.2	......	54.0
Darjiling	Darjiling	..	2	...	..	.	.	22.6	.	...	..	..	1	..	...	...	1		.	..	..	....	80.9	......	......	...	26.0	...	... ..	......	......
Dacca	Dacca	.	21	10	..	...	...	27.1	21.2	...		3	5	2	1	...	6	3	3	3	11	82.2	35.3	10.5	6.5	..	20.4	13.4	18.6	32.9	102.6
	Narainganj	...	4	9	..	...	..	32.9	76.0	..		2	2	...	1	1	1	2	3	..	1	372.5	91.2	... ..	45.8	49.8	19.5	45.6	112.0	....	79.8
Chittagong	Chittagong	...	1	2	...	..	..	9.0	6.5	.	...	.	...	...	...	.	.	...	...	1	2	.	.	......	... ..	... ..	....	..	... ..	47.9	130.7
Tipperah	Comillah	...	3	6	.	...	...	26.2	12.2	..	...	6	.	.	..	1	1	..	...	...	1	1,050.5	... ..	... .	......	41.3	18.8	......	... ..	... ..	76.7
Patna	Patna City	1	30	11	..		146.5	13.1	14.0			6	3	1	2	1	7	3	6	8	5	72.4	10.7	3.1	7.2	4.7	12.6	6.7	16.6	29.4	18.8
Gya	Gya	...	22	4	..	..	.	13.1	12.9	...	..	5	2	.	...	..	3	3	2	2	9	145.3	16.4	... ..	......	..	10.6	12.3	10.6	15.8	90.9
Shahabad	Arrah	...	3	3	...	..	...	5.0	12.6	...	...		.	..		...	1	.	.	...	5	...	.....	......	...	... ..	6.6	... ..	......	..	90.2
Mozufferpore	Mozufferpore	1	8	4	...	..	223.2	13.9	16.7	...	..	1	.		1	.	1	1	1	3	5	54.5	..	.. .	13.1	....	6.1	7.5	10.4	48.0	106.8
Durbhanga	Durbhanga	...	17	2	..	..	..	18.3	5.9	.	.	7	2	...	..	...	1	2	1	...	6	233.8	13.7	...	......	....	3.9	9.3	7.0	...	97.7
Sarun	Chupra	...	14	2	...		...	17.7	8.7	...	.	3	2	.	...	1	2	2	...	2	4	108.0	19.6	......	......	14.6	10.9	12.9	..	24.7	89.8
Bhagulpore	Bhagulpore	...	17	4	...	..	...	23.2	12.1	..	...	6	1	2	1	1	2	1		5	2	261.3	9.6	17.7	8.3	12.4	9.5	5.6	..	61.1	28.9
Monghyr	Monghyr	...	25	4	.	.	...	29.1	16.5	...	...	11	3	1	3	..	2	1	3	2	3	385.2	25.1	7.4	27.2	.	10.1	5.8	24.5	26.2	43.5
Purneah	Purneah	.	4	3	...	..	...	22.7	27.6	..	...	...	1	...	1	...	...	..	3	2	.	......	43.0	..	43.5	..	..	...	84.1	111.0	..
Puri	Puri	...	18	.	...	...	...	39.2	.		..	3	...	...	...		2	3	2	2	6	514.9	... ..	..	..	...	19.7	38.5	31.3	46.6	172.3
	TOTAL	8	452	170	...		31.8	25.7	22.6	..	..	112	56	21	17	23	91	82	61	54	113	192.1	26.5	8.3	7.7	12.0	17.5	18.7	19.8	29.5	73.0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 4th March 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 2nd March 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 2nd March 1889.			Week ending Saturday, the 3rd March 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,113	2.81,920	5,068	2,104	4,70,150	8 850
Jute	67	50,625	923	106	45,125	986
Firewood	195	1,07,720	1,605	227	1,11,015	1,877
Other articles	1,166	2,82,645	4,695	1,161	2,79,440	4,509
Total ...	2,541	7,22,910	12,291	3,598	9,05,730	16.222

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	264,344	3,28,427 11 0	28,05,190 0	6,06,581 1 0	16,106 6 7	9,51,115 2 7	70,391½	96,930¾	167,322¼
Or per mile of railway ...	...	216 15 5	.	400 11 5	10 10 3	628 5 1	.. .		.
For previous 7 weeks of half-year	1,657,963	19,70,027 6 0	1,94,51,763 10	41,80,858 4 4	1,14,005 9 9	62,64,891 4 1	440,265	668,692¾	1,108,957½
Total for 8 weeks ...	1,922,307	22,98,455 1 0	2,22,56,953 10	47,87,439 5 4	1,30,112 0 4	72,16,006 6 8	510,656¾	765,623	1,276,279¾
Comparison.									
Total for corresponding week of previous year	283,186½	3,19,724 8 3	30,18,845 10	6,97,080 0 9	20,385 2 2	10,37,189 11 2	64,219	112,118	176,337
Per mile of railway corresponding week of previous year	.....	211 3 5	... ..	460 8 0	13 7 5	685 2 10	... .	......	.
Total to corresponding date of previous year	2,199,226	25,56,428 14 5	2,28,44,610 20	54,48,175 12 9	1,84,885 6 9	81,89,490 1 11	526,221	857,300	1,383,521

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs	Rs
1,513¾	10,37,190	685	1,513¾	9,51,115	628	1,513¾	4,15,48,256	584	1,513¾	3,95,93,509	557	......	19,54,747

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 23rd February 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,111	7,071 14 0	22,719 10	1,780 6 0	36 3 0	8,897 7 0	1,948	446	2,394
Or per mile of railway	229	123 10 2	397 30	31 4 6	0 10 2	155 8 10	....	.. ..	..
For previous 7 weeks of half-year ..	81,177	42,967 2 0	1,60,145 30	10,966 15 0	249 14 10	54,183 15 10	12,351	4,411	16,762
Total for 8 weeks ...	94,288	50,039 0 0	1,82,895 0	12,756 5 0	286 1 10	63,081 6 10	14,299	4,857	19,156
Comparison.									
Total for corresponding week of previous year	18,723	10,490 15 0	25,681 0	1,833 10 0	58 3 9	12,382 12 9	1,904	490	2,394
Per mile of railway corresponding week of previous year ..	327½	183 6 6	449 0	32 0 11	1 0 3	216 7 8	.	..	.....
Total to corresponding date of previous year	122,023	67,792 4 11	2,66,263 10	17,059 3 0	443 8 0	85,294 15 11	14,992	4,388	19,380

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	12,383	216	57½	8,807	156	57½	4,65,443	173	57½	4,31,200	160	......	34,243

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,883	395 2 0	10,352 20	200 9 0	15 0 0	610 11 0	352½	141	493½
Or per mile of railway	...	32 14 10	......	16 11 5	1 4 0	50 14 3	......	......	......
For previous 7 weeks of half-year	16,989	2,884 12 0	1,27,720 0	3,042 13 0	57 5 8	5,984 14 8	2,273¼	1,040¼	3,313½
Total for 8 weeks ...	19,872	3,279 14 0	1,38,072 20	3,243 6 0	72 5 8	6,595 9 8	2,625¾	1,181¼	3,807
Comparison.									
Total for corresponding week of previous year	3,297	549 12 11	28,092 0	583 4 0	17 1 6	1,150 2 5	357	136	493
Per mile of railway corresponding week of previous year ..	......	45 13 1	...	48 9 8	1 6 9	95 13 6	......	......	......
Total to corresponding date of previous year	25,070½	4,171 15 4	1,71,946 30	3,472 14 0	92 14 3	7,737 11 7	2,696	1,248	3,944

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,150	96	12	611	51	12	43,258	77	12	40,368	73	......	2,890

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 74½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	6,505	4,267 10 0	36,510 30	3,782 1 0	115 9 0	8,165 4 0	666	1,104½	1,770½
Or per mile of railway	...	57 0 10	......	50 9 0	1 8 9	109 2 7	......	......	......
For previous 7 weeks of half-year	36,122	26,736 4 0	5,79,769 30	30,342 13 0	591 11 6	57,670 12 6	4,614	6,671½	11,285½
Total for 8 weeks ...	42,627	31,003 14 0	6,16,280 20	34,124 14 0	707 4 6	65,836 0 6	5,280	7,776½	13,056½
Comparison.									
Total for corresponding week of previous year	5,759	4,233 6 6	1,17,920 10	5,583 1 0	—65 9 9	9,750 13 9	686	1,944	2,628
Per mile of railway corresponding week of previous year ..	......	56 9 6	...	74 10 3	—0 14 0	130 5 9	......	......	......
Total to corresponding date of previous year	39,852½	29,240 13 7	7,66,076 20	36,441 7 0	871 10 9	66,553 15 4	5,395	12,963	18,358

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74½	9,751	130	74½	8,165	109	74½	4,02,283	114	74½	3,29,574	94	......	72,709

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,920	5,236 12 0	12,387 0	434 10 0	6 7 0	5,677 13 0	905	62	968
Or per mile of railway	. ..	235 5 9	......	19 8 6	0 4 8	255 2 11	.....	......	.. ...
For previous 7 weeks of half-year	133,598	34,064 4 0	61,273 20	2,118 7 0	49 0 10	36,231 11 10	6,079	420	6,499
Total for 8 weeks ...	154,524	39,301 0 0	73,660 20	2,553 1 0	55 7 10	41,909 8 10	6,984	483	7,467
Comparison.									
Total for corresponding week of previous year	22,945½	6,015 7 10	10,157 20	369 14 0	9 11 0	6,395 0 10	880	88	968
Per mile of railway corresponding week of previous year .	.. ...	270 5 9	. .	16 10 0	0 6 11	287 6 8	......	......	...
Total to corresponding date of previous year	170,882	44,121 12 5	68,303 20	2,393 1 0	55 8 3	46,570 5 8	7,144	732	7,876

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs.
22¼	6,395	287	22¼	5,678	255	22¼	2,30,799	229	22¼	2,45,765	235	5,966	... .

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 23rd February 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week .	3,161	1,152 0 0	15,088 0	935 0 0	16 0 0	2,103 0 0	509	254	763
Or per mile of railway	116	42 0 0	554 0	34 0 0	1 0 0	77 0 0		..	..... .
For previous 6 weeks of half-year	21,200	7,630 0 0	1,03,178 0	5,707 0 0	84 0 0	13,421 0 0	3,418	3,527	6,945
Total for 7 weeks ...	24,361	8,782 0 0	1,18,266 0	6,642 0 0	100 0 0	15,524 0 0	3,927	3,781	7,708
Comparison.									
Total for corresponding week of previous year .. .	3,678	1,309 0 0	18,792 0	977 0 0	115 0 0	2,401 0 0	509	491	1,000
Per mile of railway corresponding week of previous year	135	48 0 0	690 0	36 0 0	4 0 0	88 0 0	... .	.. ..	
Total to corresponding date of previous year	27,210	10,028 0 0	1,51,785 0	7,354 0 0	368 0 0	17,750 0 0	4,072	3,925	7 997

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,401	88	27¼	2,103	77	27¼	83,843	67	27¼	90,717	72	6 874	.. .

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 23rd February 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	41,246	15,074 0 0	1,55,799 0	15,665 0 0	3,483 0 0	34,222 0 0	5,668	6,936	12,604
Or per mile of railway	151	55 0 0	571 0	57 0 0	3 0 0	115 0 0*	....	..	.....
For previous 6 weeks of half-year ...	266,375	97,575 0 0	9,11,658 0	89,731 0 0	20,904 0 0	2,08,210 0 0	38,331	36,986	75,307
Total for 7 weeks ..	307,621	1,12,649 0 0	10,67,457 0	1,05,396 0 0	24,387 0 0	2,42,432 0 0	43,989	43,922	87,911
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	43,315	16,079 0 0	2,25,945 0	24,123 0 0	3,794 0 0	44,596 0 0	6,536	8,811	15,347
Per mile of railway corresponding week of previous year ...	167	64 0 0	872 0	93 0 0	6 0 0	163 0 0*	.....	..	...
Total to corresponding date of previous year	353,946	1,46,191 0 0	16,45,545 0	1,80,125 0 0	25,043 0 0	3,51,359 0 0	54,358	67,744	1,22,102

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 25th February 1888			Receipts for week ending 23rd February 1889			Total receipts from 1st April 1887 to 25th February 1888			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	44,596	172	273	34,222	125	251·89	16,22,581	140	265·21	14,80,532	121	....	1,42,049

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 16th February 1889	7,437
Corresponding week last year	7,427
Increase	10
Receipts from 1st January to 16th February 1889	45,188
From 1st January to 18th February 1888	45,768
Decrease	580
	Miles.
Miles open week ending 16th February 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 16th February 1889	145 13 2
Corresponding week last year	145 10 1
Increase	0 3 1

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 6th March 1889.

REGISTERED No. 29.

No. 11 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 13, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 9th March 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL			
	Western Districts.		
Burdwan Divn.			
1	Burdwan Mar. 9, '89	0·16	Weather—seasonable. *Rubbi* and sugarcane are very nearly average crops. Potato crop is above average. Prices have suddenly risen at Burdwan, but are stationary elsewhere.
	Culna ..	0·31	
	Raneegunge	0·18	
2	Bankoora „ 9, '89	0·57	Weather—hot. Harvesting of *rubbi* proceeds; average outturn 8 annas. Fields are being ploughed for the next rice. Prices have fallen.
3	Birbhum „ 9, '89	0·53	Weather—fairly cool, especially at night and morning. Crop prospects good. Ploughing going on vigorously at Rampore Hât. Sugarcane harvest about 12 annas. *Rubbi* not yet gathered in.
	Rampur Hât .	1·59	
4	Midnapur „ 9, '89	Nil	Weather—warm. *Boro* thriving.
5	Hugli „ 9, '89	Nil	Weather—hot during day, but cool at morning and night. Prospects of *rubbi* crops and *boro* paddy good.
	Serampur	0·29	
	Jehanabad	0·47	
	Howrah „ 11, '89	Nil	Weather—seasonable. State and prospects of crops good
	Central Districts.		
Presidency Divn.			
6	24-Perghs. Mar 12, '89	Nil	Weather—fairly cool most of week, but now hot. Harvesting of *rubbi* is about over. Manufacture of sugar continues. Ploughing is progressing
7	Nuddea „ 9, '89	Nil	Weather—hot in day, cool at night. Harvesting of sugarcane nearly completed, and that of wheat, barley, gram, &c., going on. Outturn fair. Ploughing for *aus* crop going on favourably.
	Meherpore ...	2·21	
	Chooadanga ...	0·05	
	Ranaghat ...	0·14	
8	Khoolna „ 9, '89	Nil	Weather—seasonable. Harvesting of *rubbi* crops has commenced. *Boro* paddy is doing well
9	Jessore „ 9, '89	0·03	Weather—days hot and nights cool. Ploughing of rice lands going on. Wheat and barley nearly ripe. Linseed is being cut.
	Jhenidah	0·15	
	Magoora	0·11	
	Narail ...	0·56	
	Bongong	0·15	
10	Moorshedabad „ 9, '89	0·27	Weather—days getting warm, mornings fine and cool. Harvesting of *rubbi* crops has commenced. Lands are being prepared for *bhadoi*.
	Lalbagh ...	0·19	
	Jangipur .	0·6	
Rajshahye Divn.			
11	Dinagepur „ 9, '89	Nil	Weather—getting very warm during the day, but nights still cold. Prospects of sugarcane good. Price of rice unaltered. Ploughing continues.
12	Rajshahye „ 9, '89	0·06	Weather—seasonable. Spring crops and sugarcane are being reaped. Rice sells at 16½ seers per rupee
13	Rungpur „ 9, '89	Nil	Weather—still very cool, especially at nights and in the early mornings. Early rice and Indian-corn are being sown. *Kalai* and tobacco are being got in. Prospects excellent.
14	Bogra „ 9, '89	0·08	Weather—seasonable. Standing crops are promising. Ploughing is going on. *Aus* rice is being sown in some places. Common rice is selling at 21 seers per rupee.
	Sherpore ...	0·03	
15	Pubna „ 9, '89	0·04	Weather—warm. *Rubbi* crops fair in Serajgunge sub-division. Outturn bad in Sudder sub-division.
16	Darjeeling „ 9, '89	Nil	Weather—fine day; rain wanted. Crops doing well.
17	Julpigoree „ 9, '89	Nil	Weather—days hot and nights cool. Ploughing for *bhadoi* continues. Prospects of winter crops good. Common rice sells at 17 seers per rupee in town.
	Eastern Districts.		
Dacca Divn.			
18	Dacca Mar. 9, '89	Nil	Weather—getting warmer and fine. Pulses are being gathered. Cultivation for early rice is going on. *Boro* paddy thriving. Prospects continue favourable, but rain is wanted.
	Munshigunge ...	0·4	
19	Furreedpur „ 9, '89	Nil	Weather—getting warmer. Prospects of crops fair. Outturn of *rubbi* crops in Sudder will be below the average.
	Madaripur ...	0·16	
20	Backergunge „ 8, '89	0·33	Weather—cool at night and morning; hot during the day. Prospects of crops fair. Rain has done good to *rubbi* crops.
21	Mymensingh „ 8, '89	Nil	Weather—days hot, nights cool. Prospects of crops good.
Chittagong Divn.			
22	Chittagong „ 12, '89	Nil	Weather—hot. Rain wanted. Winter crops thriving. Prices rising.
23	Noakholly „ 8, '89	Nil	Weather—seasonable. Harvesting of *rubbi* crops going on. Soil for *aus* crop is being cultivated.
	Fenny ...	0·75	
24	Tipperah „ 7, '89	Nil	Weather—seasonable. State and prospects of crops satisfactory.
	Chandpur ...	0·30	
25	Chittagong Hill Tracts. „ 6, '89	0·12	Weather—still cold at night with cool mornings, but hot during the day. *Jum* cutting still continues. Chillies and tobacco doing well. Late rain has improved the condition of these crops to some extent, and prospects are fairly good
	Hill Tipperah „ 7, '89	Nil	Weather—days hot and nights cool. *Jum* cutting nearly over. Chillies doing well. Rain much wanted.

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.				
Patna Divn.				
26	Patna Barh Dinapur	Mar. 9, '89	Nil 0·20 0·33	Weather—bright and getting hot. Prospects of *rubbi* generally favourable, but not good in Behar. Mustard, gram and *mussoor* are nearly harvested, and wheat is being cut. The weather has been unfavourable to the poppy crop.
27	Gya	„ 9, '89	Nil	Weather—seasonable. Harvesting of *rubbi* crops has commenced. Opium is being extracted.
28	Shahabad Sasseram	„ 9, '89 . .	Nil 1·22	Weather—hot with west wind. Harvesting of pulses continues with fair outturn. Prospects of other *rubbi* crops generally good, though some further damage has been caused by a storm in the Sasseram sub-division. Opium prospects generally good, though the crop has been damaged in many villages by storms.
29	Durbhunga	...		Report not received.
30	Mozufferpur Hajipur Sitamarhi	„ 9, '89	0·07 0·10 0·03	Weather—clear and warm. Mustard and peas are being harvested. Opium collection going on. General *rubbi* prospects good. *Cheena* and *mung* are germinating well. Indigo and *kodo* sowings in progress.
31	Sarun Sewan	„ 9, '89	Nil 0·25	Weather—fair; getting hot. Prospects of *rubbi* crops continue good. Poppy slightly damaged. Sugarcane planting in progress. Harvesting of linseed and peas has commenced.
32	Chumparun	9, '89	Nil	Weather—bright and warm; west wind prevailing. *Rubbi* crops ripening, and harvesting going on. Opium collection progressing, and the produce is being housed. *Cheena* coming on well. Mango blossoms give good promise. Prices rather stationary.
Bhagulpore Divn.				
33	Monghyr	„ 9, '89	0·10	Weather—bright and getting hot. Prospects of standing crops continue fair. Peas, mustard, linseed and *mussoori* are being gathered.
34	Bhagulpur	„ 9, '89	Nil	Weather—seasonable, cool at night. Standing crops are doing well, and are nearly ripe. *Mohua* prospects hopeful. *Cheena* and *boro dhan* are being sown and sugarcane planted. Peas, *mussoor*, linseed and *khesari* are being reaped in places.
35	Purneah	„ 9, '89	0·01	Weather—clear and hot for time of year. *Rubbi* being harvested, outturn about 12 or 14 annas. Ploughing for *bhadoi* commenced.
36	Maldah Chanchal Shibgunge	„ 9, '89	Nil 0 03 0 05	Weather getting warm. Standing *rubbi* crops are ripening. Nothing can yet be said regarding the prospects of *boro*, which is still being planted.
37	Sonthal Perghs Deoghur Jamtara	„ 9, '89	Nil 0 17 0·55	Weather—dry with west winds. Sugarcane doing well. Prospects of *rubbi* outturn about 10 annas. *Rahar* is being harvested in Godda.
ORISSA.				
Orissa Divn.				
38	Cuttack	„ 8, '89	Nil	Weather—seasonable; mornings foggy. Gathering of *rubbi* crops is over. Prospects of standing crops fair. Price of rice stationary.
39	Pooree Khoorda	„ 7, '89	Nil 0·07	Weather—seasonable. *Dalua* crop is in ear. *Mung* crop in flower. Lands are being ploughed for the ensuing *sarad* crops. Mango crop is poor. Common rice 18 seers 9 chittacks per rupee in the Sudder sub-division and 15 seers 9 chittacks in Khoorda.
40	Balasore	„ 8, '89	Nil	Weather—decidedly warmer. *Dalua* rice in flower. Rain much wanted for cultivation.
CHOTA NAGPORE.				
South-West Frontier Agency.				
Chota Nagpore Divn.				
41	Hazaribagh	Mar 8, '89	Nil	Weather—seasonable. *Rubbi* crops are being harvested in places; outturn from 6 to 8 annas. Rice lands are still being ploughed. No report received regarding poppy. Prices stationary.
42	Lohardugga Palamow	„ 9, '89 ...	0 13 0 48	Weather—warm. Some rain during the week. Prospects of *rubbi*, *mohua* and mango are reported to be very gloomy in Palamow owing to wet and cloudy weather. Prices stationary.
43	Singbhoom	„ 8, '89	0 32	Weather hot in day, cool at night. Rain on 3rd instant. *Rubbi* crops are being gathered, outturn 8 to 10 annas. Prices stationary.
44	Manbhoom Govindpur	„ 9, '89	0·19 0·47	Weather—hot, with clouds. *Rubbi* being gathered; outturn varies from 8 to 12 annas. Recent rain has injured the *mohua* crop. Prices stationary.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 12th March 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	STOCK IN HAND AS COMPILED OF—												
	1st week of Mar. 1888.	1st week of April 1888	1st week of May 1888	1st week of June 1888	1st week of July 1888.	1st week of August 1888	1st week of Sept. 1888.	1st week of Oct. 1888.	1st week of Nov. 1888.	1st week of Dec. 1887.	1st week of Jan 1889	1st week of Feb. 1889	1st week of Mar 1889.
	Mds	Mds	Mds	Mds	Mds	Mds	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.
Baliaghatta	8,54 000	10 07,000	9,43,000	8 66 000	7,07,000	6 15,000	5,87 000	3 63,000	3 31,500	3 29 000	3,98,000	7,77,000	12,77 000
Ooltadanga	87,700	1,61 200	1,42,9 0	1,43,300	1,34 4 0	1,10 400	96 100	76 200	65,600	63 500	76 300	71 400	80 200
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpyghat.	6 06,100	6,61,500	6 73 100	6,49 900	6,17,600	5 90 300	5,60 500	7,14 900	6,97 300	6 51,400	6,49,200	6,96,600	7,08,200
Pathuriaghatta, Posta, and Jorabagan.	3,700	5,00	4 000	4 000	3 700	4,000	3,000	2,000	3,000	2 500	4,000	3 500	2 000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,98,100	1,96,000	1,44,700	1,44,500	1,32,800	1,08 400	89 800	1,03 300	95 700	98 100	1,06,600	1,26,600	1,37,400
21 Minor Bazars (estimated) .	2,40,000	2,40,000	2,40 000	2 40,000	2 40,000	2,41 000	2 40,000	2,40,000	2 40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50 000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreesur, and Chandernagore.	9 277	12,842	13,210	15,687	14,155	57,316	34,012	27,945	24,210	22,206	22,530	14,924	20,493
Total ..	22,48 977	25,37,142	24,10,910	23,13 387	20,89,955	20,00,216	18,60,412	17,77,345	17,07,310	16,61,706	17,46,630	21,80,024	27,15,293
On Railway premises on both sides of the river.	22,936 (on 3rd March 1888)	22,345 (on 4th April 1888)	8,290 (on 4th May 1888)	7,458 (on 4th June 1888)	7,624 (on 4th July 1888)	2 255 (on 4th August 1888)	5,027 (on 4th September 1888)	14 112 (on 4th October 1888)	10,475 (on 3rd Nov. 1888)	7,865 (on 3rd Dec. 1888.)	11,491 (on 4th Jan. 1889)	15,074 (on 4th February '89)	6,852 (on 5th Mar. 1889.)
On boats unloaded ... By Port Commissioners' returns.	70 553 (1st to 3rd March 1888.)	46 816 (1st to 3rd April 1889)	11 621 (1st to 3rd May 1888)	36,672 (1st to 3rd June 1888)	34,787 (1st to 3rd July 1888.)	5,58,816 (1st to 3rd August 1888.)	46,687 (1st to 3rd September 1888.)	36,342 (1st to 3rd October 1888)	55,243 (1st to 3rd November 1888.)	41,600 (1st to 3rd Dec. 1888.)	49,005 (2nd to 4th Jan. 1889.)	44,924 1st to 3rd February '89.)	31,937 (1st to 3rd Mar. 1889.)
On boats unloaded ... By Canal returns	1,91,687 (1st to 3rd March 1888)	85 659 (1st to 3rd April 1888)	46 728 (1st to 3rd May 1888)	25,540 (1st to 3rd June 1888)	28,366 (1st to 3rd July 1888)	38,091 (1st to 3rd August 1888.)	52,215 (1st to 3rd September 1888.)	81,787 (1st to 3rd October 1888.)	70,552 (1st to 3rd Nov. 1888.)	27,665 (1st to 3rd Dec. 1888.)	1,24,374 (2nd to 4th Jan. 1889.)	1,43,475 (1st to 3rd February '89.)	80,850 (1st to 3rd Mar. 1889.)
Grand Total of Stocks ...	25,33,453	26,91,993	24,79,949	23,83,057	21,72,732	20,93 236	19,64,351	19,09,586	18,44,280	17,38,836	19,31,500	23,83,496	28,34,932
Probable stock available for exportation by sea.	14¾ lakhs	16¾ lakhs	14½ lakhs	13¾ lakhs	11¼ lakhs.	10½ lakhs.	9 lakhs	8½ lakhs	8 lakhs.	6¾ lakhs.	8½ lakhs.	13¼ lakhs	17¾ lakhs

STATISTICAL DEPARTMENT,
The 9th March 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 28TH FEBRUARY 1889.

PRICES-CURRENT (retail) of Food-g

Number.	DISTRICTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, best sort. Present return.	Rice, best sort. Next preceding return.	Rice, best sort. Corresponding return	Kangni or Kakun, Italian millet. (Setaria italica.) Present return.	Kangni or Kakun. Next preceding return.	Kangni or Kakun. Corresponding return of last year.	Gram, Chana, Chhola, Kadalay or Sunaga. (Cicer arietinum.) Present return.	Gram. Next preceding return.	Gram. Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan .	13 4	12 0	13 4		No sale.		15 0	15 0	19	...	...	...	15 0	15 0	18 15
2	Bankoora ...	12 8	12 8	13 12	15 0	15 0	18 0	17 8	17 8	19	...	...	...	14 8	14 8	16 0
3	Beerbhoom ...	11 8	11 0	13 8	...	..	...	13 4	13 0	15	...	...	...	15 0	14 4	21 0
4	Midnapore .	10 0	10 0	15 0	40 0	54 0	...	15 0	15 0	22	...	...	..	13 8 / 14 4	13 8 / 14 4	17 0
5	Hooghly	13 0	13 0	14 0	...	...	..	10 0	10 0	10	...	...	...	13 0	13 0	19 0
	Howrah ..	13 8	.	...	..	..	...	12 0	12 0	14	...	...	...	16 0	16 0	20 0
	Central Districts.															
	Calcutta ..	12 15	12 6	12 7	15 15	14 14	22 10	9 9	9 7	3	17 12	17 8	12 4	15 9	14 10	17 12
6	24-Pergunnahs	12 4	13 4	16 0	16 0	16 0	22 8	8 0	8 0		16 0	13 4	13 5	17 1	16 0	20 0
7	Nuddea ..	14 0	14 0	16 6	17 12	17 12	32 0	13 5	13 5	]	...	...	...	17 0	16 0	22 14
8	Khoolna	...	.	...	.	..	.	14 0	16 0	!	...	...	...	10 8	12 12½	16 0
9	Jessore .	12 8	12 0	18 4	..	...	..	13 0	14 0		...	...	...	14 0	14 8	20 0
10	Moorshedabad	13 5	13 5	15 0	...	..	...	13 8	13 5		...	...	...	16 0	16 0	28 0
11	Dinagepore	12 0	12 0	11 0	11 0	10 0	21 0	15 8	13 8		...	...	...	12 0	11 1	14 4
12	Rajshahye ...	13 8	13 8	16 8	26 4	26 4	45 0	14 4	14 4		...	...	...	15 0	14 4	19 8
13	Rungpore ..	14 8	12 4	11 6	...	...	...	10 8	10 8		...	...	...	10 0	10 0	16 0
14	Bogra ..	12 0	9 15	15 0	...	...	...	15 0	13 8		...	...	...	10 14	11 4	12 0
15	Pubna ...	15 12	15 12	17 0	...	..	..	7 8	7 8		...	...	...	13 8	13 8	21 0
16	Darjeeling ..	10 0	10 0	10 0	6 0	6 0	11 0	6 0	6 0		...	...	...	11 0	11 0	11 0
17	Julpigoree ..	10 0	10 0	13 0	16 0	16 0	20 0	8 0	8 0		...	.	...	11 8	11 8	15 0
	Eastern Districts.															
18	Dacca ..	15 8	15 8	12 12	26 0	20 0	25 12	15 0	15 0		...		...	13 0	13 0	16 0
19	Furreedpore ...	16 0	16 0	18 0	20 0	20 0	40 0	9 0	9 0		...	...	...	16 0	16 0	15 0
20	Backergunge ...	...	...	..	...	...	...	14 0	13 8		...	...	...	12 13	12 13	13 0
21	Mymensingh ...	10 0	10 0	14 0	...	...	...	12 0	13 0		...	...	...	12 0	12 4	14 0

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9
B At Rampore Haut retail price of salt 10½ seers per rupee.
C In sub divisions retail prices of salt per rupee are : Ghatal 10⅜ seers, Tu
D At Jehanabad retail price of salt 10 seers per rupee.
E In sub divisions retail prices of salt per rupee are :—Baraset 9 seers, Bus
Barrackpore 9½ seers, and Dum Dum 10 seers.
F In sub-divisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meh
10 seers
G In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 1? c
H In sub divisions retail prices of salt per rupee are : - Jhenida 9 seers, Mag

Head-quarter Station Bazars of the Districts of Bengal on the 28th February, 1889.

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
•	No sale.		18 8	20 0	24 0	107 0	107 0	120 0	(A) 10 2	10 7¼	9 12¾	3 11 6	3 11 0	3 14 0	Burdwan.
20 0	20 0	32 0	18 8	18 8	20 0	280 0	280 0	320 0	10 0	10 0	11 0	3 14 0	3 14 [illegible]	[illegible] 9 0	Bankoora.
...	...	...	...	12 0	16 8	160 0	...	160 0	(B) 10 0	10 0	10 8	3 13 0	3 13 0	3 6 0	Beerbhoom.
...	...	...	21 0	21 0	13 0	160 0	160 0	120 0	(C) 10 4	10 4	...	3 14 0	3 14 0	4 4 0	Midnapore.
...	...	.	13 0	13 0	13 0	120 0	120 0	120 0	(D) 9 0	9 0	8 8	4 6 0	4 6 0	4 8 0	Hooghly.
...	..	...	13 4	13 0	12 8	100 0	100 0	100 [illegible]	10 8	10 8	9 2	3 7 0	3 7 0	4 0 0	Howrah.
															Central Districts.
16 0	16 0	17 0	16 12	16 10	18 4	100 0	100 0	95 0	10 5	10 5	9 9	3 9 6	3 9 7	3 14 9	Calcutta.
...			18 0	18 0	21 4	100 0	100 0	90 0	(E) 10 4	10 0	9 6	3 10 0	3 10 0	3 14 6	24-Pergunnahs
...	...	...	17 12	20 0	24 10	...	...	...	(F) 9 2	9 2	9 2	3 14 0	3 11 0	4 0 0	Nuddea.
...	..	..	...	...	...	160 0	160 0	160 0	(G) 9 2	9 2¼	8 0	4 0 0	4 0 0	4 8 0	Khoolna.
...	..	...	22 0	22 0	30 0	160 0	160 0	100 0	(H) 9 2	9 2	8 0	4 0 0	4 0 0	4 4 0	Jessore.
...	...	...	22 0	22 0	23 0	200 0	200 0	200 0	(I) 10 0	10 0	11 0	...	...	3 10 0	Moorshedabad
...	...	...	9 8	...	18 12	160 [illegible]	160 0	160 0	(J) 10 0	9 8	9 8	3 15 0	4 0 0	4 0 0	Dinagepore.
...	...	...	21 12	20 2	16 0	240 0	240 0	240 0	(K) 9 9	9 9	9 9	4 0 0	4 0 0	4 4 0	Rajshahye.
...	...	...	13 0	10 5	9 0	120 0	120 0	120 0	(L) 9 6	9 6	8 5	4 4 0	4 4 0	4 13 0	Rungpore.
...	...	...	...	...	...	96 0	96 0	90 0	9 0	8 4	8 4	4 5 4	...	4 6 0	Bogra.
...	...	...	24 0	27 8	26 4	200 0	200 0	200 0	(M) 9 2¼	9 9	9 4	4 0 0	3 15 0	4 5 3	Pubna.
18 0	18 0	25 0	..	...	8 0	120 0	120 0	120 0	8 0	8 0	9 0	...	...	4 4 0	Darjeeling.
...	.	20 0	9 0	9 0	9 8	128 0	128 0	128 0	(N) 9 0	9 0	9 0	4 2 0	4 4 0	4 0 0	Julpigoree.
															Eastern Districts.
...	...	...	16 0	16 0	16 0	120 0	120 0	120 0	(O) 10 0	9 14	8 0	3 14 0	4 0 0	4 8 0	Dacca.
...	...	...	12 0	12 0	...	120 0	120 0	140 0	10 0	10 0	11 0	3 14 0	3 14 0	3 4 0	Furreedpore.
...	...	...	..	...	11 0	120 0	120 0	120 0	(P) 10 10	10 10	9 8	3 12 0	3 12 0	3 10 0	Backergunge.
...	...	...	...	20 0	10 0	...	...	...	(Q) 9 8	9 10	8 14	4 2 0	4 2 0	4 8 0	Mymensingh.

I In Lalbagh, Kandi, and Jungipore sub-divisions retail price of salt 10 seers per rupee.
J In Thakurgaon sub-division retail price of salt 8 seers per rupee.
K In sub-divisions retail prices of salt per rupee are :—Nattore 9¼ seers and Nowgong 8 seers 11 chittacks.
L In sub-divisions retail prices of salt per rupee are :– Gaibanda 8 seers, Kurigram 9 seers.
M At Serajgunge retail price of salt 10¼ seers per rupee.
N At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee.
O In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8⅞ seers, and Naraingunge 10 seers.
P In sub-divisions retail prices of salt per rupee are :– Patuakhali 8 seers, Ferozepore 9 seers, and Bhola 8 seers.
Q In sub-divisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Attea 10 seers, Jamalpore 9¼ seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood a

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Kangni or Kakun. Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadalay, or Sunaga. (*Cicer arietinum.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	14 0	...	...	...	11 0	11 0	10 8
23	Noakholly ...	...	...	...	...	...	...	15 0	15 0	20 0	...	...	...	12 0	12 0	13 0
24	Tipperah ..	12 8	12 8	13 8	...	...	...	16 0	17 0	17 8	.	...	...	16 0	16 0	11 0
25	Chittagong Hill Tracts.	...	..	...	...	...	...	11 6¾	11 6¾	14 8	...	...	...	...	...	...
	Hill Tipperah ...	6 0	6 0	8 0	...	...	...	9 0	9 0	15 0	...	...	...	10 0	10 0	12 0
	BEHAR.															
26	Patna ...	17 0	18 0	15 8	22 8	22 0	28 0	11 0	11 0	11 8	16 0	15 8	30 0	19 8	19 8	21 0
27	Gya ...	15 0	14 0	14 0	18 0	18 0	19 0	10 0	10 0	10 0	13 4	13 0	19 0	18 0	18 8	17 0
28	Shahabad ...	16 0	15 8	13 0	20 0	20 0	22 0	9 0	9 0	9 8	...	...	...	20 0	20 0	19 8
29	Durbhunga ...	16 8	16 0	14 8	18 12	18 0	30 4	10 0	10 8	13 0	13 8	...	18 0	19 12	18 12	14 0
30	Mozufferpore ..	12 0	12 0	13 0	...	...	25 0	9 0	9 0	12 0	...	...	...	16 0	16 0	18 0
31	Sarun ...	15 0	15 0	13 8	21 12	21 8	22 0	8 12	8 12	8 8	19 0	15 0	19 0	18 0	17 12	19 8
32	Chumparun ...	13 0	13 0	12 0	16 0	18 0	30 0	7 0	9 0	12 0	...	...	...	16 0	15 0	17 0
33	Monghyr ...	15 12	15 0	16 12	...	...	25 3	13 12	13 2	13 14	...	10 8	21 0	18 9	18 9	22 4
34	Bhagulpore ...	15 2	15 2	15 2	17 10	17 0	25 4	15 14	13 14	16 6	...	...	...	17 0	16 11	20 3
35	Purneah ...	12 0	13 0	14 0	..	...	28 0	15 0	15 0	20 0	...	...	16 0	13 0	13 0	24 0
36	Muldah ...	13 0	13 0	17 0	...	...	...	10 0	12 0	13 0	...	...	...	15 0	15 0	20 0
37	Sonthal Perghs.	11 0	11 0	11 4	...	...	...	14 0	14 0	16 8	...	...	...	14 0	14 0	20 0
	ORISSA.															
38	Cuttack ...	13 2	13 2	15 12	...	...	...	11 13	11 13	10 8	...	.	...	21 0	19 11	21 0
39	Pooree ...	11 13	13 2	14 7	...	...	...	11 13	11 13	14 7	...	...	...	15 12	17 1	15 12
40	Balasore ...	13 0	13 0	15 0	13 0	13 0	13 0	12 0	12 0	16 0	...	...	...	13 0	12 8	15 0
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 0	13 0	13 0	...	...	22 0	8 0	8 0	9 0	Not procurable.			15 0	15 0	17 0
42	Lohardugga ...	13 0	13 0	Best 10 0 Ordinary 14 0	Not available			13 0	13 0	16 0	...	...	...	12 0	13 0	16 0
43	Singbhoom ...	10 0	10 0	12 0	14 0	14 0	24 0	16 0	16 0	16 0	...	...	...	12 0	12 0	14 0
44	Manbhoom ...	14 0	13 5	11 0	...	...	32 0	15 0	14 3	14 0	...	...	...	14 0	14 0	16 0

* At Jajpore and Kendrapara retail price of common rice 23 seers 10

R At Cox's Bazar retail price of salt 8 seers per rupee.
R1 At Panchgachia in Fenny sub-division retail price of salt 8 seers per rupee.
S In sub-divisions retail prices of salt per rupee are :—Buxar and Sasseram 10¼ seers a
T In Tajpore and Madhubani sub-divisions retail price of salt 10 seers per rupee.
U In Hajipore and Sitamarhi sub-divisions retail price of salt 10 seers per rupee.

4445

CALCUTTA,
The 12th March 1889.

Station Bazars of the Districts of Bengal on the 28th February 1889—(concluded).

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers — Salt			Districts
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year	
															Eastern Districts—concluded
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
..	..	..		..	...	108 0	108 0	110 0	R 9 8	9 8	9 0	4 0 0	4 0 0	4 3 0	Chittagong
...	..		8 0				..	..	RI 8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Noakholly
.	..	.	9 0	9 0	8 0	..		.	8 0	8 0	10 8	4 6 0	4 6 0[b]	3 12 0	Tipporah
.	..			.	.	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts
.	..		8 0	8 0	12 0	...	.	.	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah
															BEHAR
22 8	21 8	26 0	23 0	24 0	23 0	130 0	130 0	12[illegible] 0	10 0	10 0	10 0	3 12 3	3 12 6	3 12 0	Patna
.	...	.	19 0	18 0	20 0	200 0	200 0	140 0	8 12	8 12	9 8	4 2 9	4 2 9	4 0 0	Gya
.	...	..	14 0	14 0	12 8	160 0	160 0	150 0	S 10 0	10 0	10 0	. ..			Shahabad
17 8	18 0	25 8	21 0	21 0	15 0	176 0	176 0	160 0	T 11 0	11 0	9 8	3 10 2	3 10 3	4 4 0	Durbhunga
18 0	17 0	26 8	20 0	20 0	14 0	160 0	160 0	160 0	U 10 0	10 0	10 0	3 12 0	3 12 0	.	Mozufferpore
21 2	20 12	23 8	21 0	[illegible] 12	16 4	200 0	16[illegible]	160 [illegible]	1[illegible] 0	10 0	9 8	3 15 0	3 15 0	4 4 [illegible]	Sarun
18 0	18 0	28 0	22 0	22 0	11 0	160 0	160 0	160 0	V 9 8	9 8	8 0	4 0 0	4 1 0	4 8 0	Chumparun
16 4	16 4	27 14	17 4	17 5	16 4	147 0	147 0	126 0	W 9 8	9 8	10 8	4 0 0	4 0 0	3 5 6	Monghyr.
16 6	17 0	25 4	17 10	17 0	22 1	17[illegible] 8	176 8	151 8	10 1	11 0	9 6	.	. .	4 0 0	Bhagulpore.
		..	16 0	16 0	16 0	200 0	200 0	120 0	X 9 0	9 0	8 0	4 5 0	4 5 0	....	Purneah.
..	..	.	..		.	120 0	120 0	120 0	10 0	10 0	9 0	. .	....	4 0 0	Maldah
19 0	19 0	29 0	22 0	23 0	24 0	200 0	200 0	200 0	9 0	9 0	9 8	4 3 0	4 3 0	3 13 0	Sonthal Perghs.
															ORISSA.
...	...	...	18 6	17 1	19 11	80 0	80 0	80 0	12 0	11 0	9 12	3 3 0	3 12 0	4 0 0	Cuttack
...	...	...	14 7	15 12	17 1	80 0	80 0	70 0	11 13	11 13	10 8	3 6 0	3 6 0	3 8 0	Pooree
.	...	...	...	...	.	160 0	160 0	200 0	Y 9 0	8 8	8 8	4 1 0	4 4 0	4 8 0	Balasore
															CHOTA NAGPORE.
															South-West Frontier Agency.
18 0	18 0	19 8	17 0	16 0	8 0	320 0	320 0	32[illegible]	8 0	8 0	7 0	4 4 0	4 4 0	5 0 0	Hazaribagh
17 0	16 0	24 0	16 0	15 0	Big 22 0 Small 24 0	140 0	140 0	115 0	8 8	8 8	9 1	4 8 0	4 8 0	4 6 0	Lohardugga.
...	...	...	15 0	15 0	[illegible]0 0	20[illegible] 0	20[illegible]	240 [illegible]	8 0	8 0	8 0	... ..	... ..		Singbhoom.
26 8	26 0	32 0	17 0	16 0	22 0	200 0	200 0	200 0	Z 9 0	9 0	9 2	4 2 6	4 2 6	3 8 0	Manbhoom

V At Bettiah retail price of salt 9½ seers per rupee.
W In sub divisions retail price of salt per rupee are :—Begusarai 9¼ seers and Jamui 9 seers.
X At Kishengunge retail price of salt 10 seers per rupee.
Y At Bhudruck retail price of salt 8 seers per rupee.
Z At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*wholesale*) of F[...]

Number	MARTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, Present return.
		R A P	R A P.	R A P	R A P.	R A P	R. A P	R A. P
1	Calcutta ..	2 13 5	2 15 0	2 13 11	2 5 8	2 7 0	1 8 0	3 14 10
2	Serajgunge ..	2 5 0	2 10 0	2 2 0	...	...	...	3 9 0
3	Dacca	2 8 0	2 8 0	2 10 0	1 8 0	2 0 0	1 8 0	2 10 0
4	Naraingunge	.	..	...	..	...	...	2 6 0
5	Chittagong	3 9 0	3 9 0	3 8 0			...	3 4 0
6	Patna ...	2 5 0	2 2 0	2 8 0	1 12 0	1 12 0	1 5 0	3 8 0
7	Balasore ...	3 0 0	3 0 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0
8	Pooree ...		.	...	...	.	.	...
9	Cuttack ..	3 0 0	3 0 0	2 5 0	.	.	...	3 4 0

OF 40 SEERS.

Marua or Ragi. (*Eleusine Coracana.*) Present return.	Marua or Ragi. Next preceding return.	Marua or Ragi. Corresponding return of last year.	Kangni or Kakun. Italian Millet. (*Setaria italica.*) Present return.	Kangni or Kakun. Next preceding return.	Kangni or Kakun. Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...	2 0 0	2 0 0	3 0 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
..	...	..	.	..	...
...	..	1 3 [illegible]	2 7 6	2 8 0	1 4 0
...	...	..	.	..	...
..	..	...		..	..
..	...			...	..

446*b*

CALCUTTA

The 12*th March* 1889.

undermentioned Marts of Bengal on the 28th February 1889.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 5 3	2 7 2	2 0 4	2 4 0	2 4 0	2 1 7	2 2 5	2 2 8	1 14 10	0 5 9	0 5 9	0 6 7	3 9 6	3 9 7	3 14 9	Calcutta.
2 10 0	3 7 0	2 4 0	...	...	.	...	...	...	...	...	...	3 13 0	3 12 0	4 12 0	Serajgunge.
3 0 0	3 0 0	2 6 0	...	...	...	2 8 0	2 8 0	2 0 0	0 5 0	0 5 0	0 6 0	3 14 0	4 0 0	4 8 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 10 0	0 10 0	0 8 0	3 12 0	3 12 0	4 8 0	Naraingunge.
3 8 0	3 8 0	3 10 0	...	...	...	...	...	...	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	4 3 0	Chittagong.
2 0 0	2 0 0	1 13 0	1 11 9	1 12 6	1 7 0	1 10 0	1 10 0	1 12 0	0 5 0	0 5 0	0 5 0	3 12 3	3 12 6	3 12 0	Patna.
2 14 0	3 0 0	2 8 0	...	.	..		...	..	0 4 6	0 4 6	0 4 0	4 1 0	4 4 0	4 8 0	Balasore.
...	...	...	.	...	...	...	..	..	...	...	...	3 6 0	3 6 0	3 8 0	Pooree.
1 11 0	2 0 0	1 11 0	...	...	...	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	3 3 0	3 12 0	4 0 0	Cuttack

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of

Meteorological Division.	District.	Representative stations.	STATION OBSERVATIONS. Air Pressure. Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Temperature. Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature	Mean daily temperature.	Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa	Pooree	Pooree	30·109	29·938	30·035	30·048	—	91·2*	58·9*	81·8*	64·2*	72·8*	—	79	—	0·8	—	0·15
		Gopalpore	30·090	29·913	30·012	30·062	+·032	87·2	65·9	83·1	72·4	77·8	+3·3	73	—	0·7	—	Nil
		False Point	30·124	29·945	30·033	30·055	+·020	84·9	57·0	82·5	63·8	73·2	−0·5	88	+9	2·1	−0·6	2·04
	Cuttack	Cuttack	30·060	29·876	29·982	30·060	+·038	97·4	59·3	90·9	65·6	78·3	+1·2	76	+13	1·7	−0·1	0·26
	Balasore	Balasore	30·107	29·924	30·009	30·070	+·023	92·4	54·0	84·8	61·0	72·9	+1·5	78	—	0·1	—	0·89
South-West Bengal	South-West Midnapore and South 24-Pergunnahs.	Saugor Island	30·121	29·951	30·037	30·066	+·036	86·7	54·8	80·9	64·2	72·6	−0·5	87	+11	1·8	−0·2	1·51
	Midnapore	Midnapore	30·004	29·822	29·916	30·074	+·026	91·3	52·2	84·3	60·9	72·7	+2·0	70	—	0·8	—	4·80
	24-Pergunnahs, Howrah and Hooghly	Calcutta	30·133	29·942	30·042	30·065	+·028	87·0	49·8	79·8	59·2	69·5	1·5	84	+16	0·0	−1·0	2·46
	Burdwan	Burdwan	30·039	29·859	29·956	30·062	+·021	90·8	43·2	82·8	57·9	70·4	−0·1	72	+16	1·2	−0·7	0·36
	Bankoora	Bankoora	29·818	29·647	29·735	30·053	—	92·2	50·8	83·4	59·3	71·4	—	74	—	1·5	—	0·40
	West Burdwan and Beerbhoom	Raniguuge	29·820	29·634	29·726	30·051	+·030	91·5	50·0	82·5	59·3	70·9	+1·7	74	—	1·1	—	0·41
	Moorshedabad	Berhampore	30·076	29·896	29·991	30·062	+·025	87·6	49·1	79·5	57·2	68·4	−1·0	87	+23	1·6	−0·4	0·90
	Nuddea	Krishnagore	30·115	29·920	30·022	30·091	+·058	89·8	47·8	81·1	55·9	68·5	+1·3	81	—	1·5	—	0·47
	Jessore and Khoolna	Jessore	30·122	29·929	30·032	30·067	+·037	90·7	49·4	82·2	57·4	69·8	−0·6	87*	+25	1·7	−0·3	0·85
East Bengal	Chittagong	Chittagong	30·035	29·845	29·960	30·054	+·013	89·6	51·2	82·5	59·6	71·1	+0·8	84	+14	1·9	−0·4	0·94
	Chittagong Hill Tracts	Demagri	Observations not received.															
	Backergunge	Barrisal	30·128	29·941	30·047	30·060	+·053	88·3	49·1	80·8	58·7	69·8	+1·8	83	—	0·8	—	1·75
	Noakholly	Noakholly*	30·080	29·912	30·013	30·058	+·033	86·7	48·2	77·3	54·9	66·2	−1·4	80	—	2·1	—	1·60
	Furreedpore	Furreedpore	30·111	29·908	30·024	30·065	+·030	84·8	48·0	78·1	55·7	66·9	+0·3	85	—	0·6	—	0·61
	Dacca	Dacca	30·101	29·899	30·027	30·051	+·021	90·6	50·2	81·8	58·6	70·2	−0·3	81	+17	1·9	−0·1	1·09
	Commillah	Commillah	30·086*	29·888*	30·012*	30·019*	+·019	90·4	48·1	82·8	57·1	70·0	+1·9	85	—	1·3	—	0·70
	Mymensingh	Mymensingh	30·071	29·866	29·993	30·053	+·019	86·9†	46·0†	77·1†	55·8†	66·4†	+1·1	87	—	1·9	—	0·37
North Bengal	Bogra	Bogra	30·050	29·856	29·971	30·038	+·014	87·8	47·6	78·8	56·2	67·5	+2·3	82	—	0·7	—	0·55
	Pubna	Serajgunge	30·078	29·870	29·995	30·044	+·019	88·3	45·0	80·1	54·2	67·1	+1·8	87*	—	1·0*	—	0·19
	Rajshahye	Rampore Beauleah.	30·073	29·883	29·984	30·057	+·019	86·3	48·2	77·9	55·9	66·9	+2·1	80	—	0·7	—	1·01
	Maldah	Maldah	30·076†	29·893†	29·983†	30·068†	—	86·0‡	46·4‡	81·2‡	54·9‡	68·1‡	—	73*	—	0·9*	—	0·30*
	Dinagepore	Dinagepore	30·058	29·823	29·932	30·059	+·047	84·1	45·8	77·5	55·7	66·6	+2·7	85	—	1·4	—	1·02
	Rungpore	Rungpore	30·017	29·860	29·926	30·058	+·030	83·6	44·5	76·8	54·5	65·6	+2·6	86	—	1·2	—	1·16
	Julpigoree and Cooch Behar	Julpigoree	29·855	29·615	29·733	30·058	+·034	80·9*	41·0*	71·9*	50·3*	61·2*	−1·6	88	—	1·1	—	1·13
	Darjeeling Hill Tracts	Darjeeling*	23·104	22·805	22·980	--	+·045	54·2	29·6	47·0	36·3	41·7	+1·9	88	+10	6·3	+0·7	2·62
North Behar	Purneah and North Bhagulpore	Purneah	30·017	29·806	29·916	30·051	+·024	84·2*	47·5*	76·3*	55·3*	65·8*	+0·8	88	+27	1·8	+0·6	0·50
	Mozufferpore	Mozufferpore	Observations suspended.															
	Durbhunga	Durbhunga	29·995*	29·803*	29·878*	30·055*	+·022	79·9	49·8	72·5	58·0	65·2	+0·6	80	+17	1·5	−0·1	0·67
	Chumparun	Motihari	Observations incomplete.															
	Sarun	Chupra	29·977	29·775	29·855	30·060	+·034	72·5*	47·1*	62·7*	54·8*	58·8*	−5·1	82	—	2·3	—	1·24
South Behar	Shahabad	Dehree	29·782	29·583	29·684	30·050?	+·020?	88·3	47·0	79·7	57·3	68·5	+3·1	73	—	1·0	—	1·01
		Buxar	29·912	29·724	29·807	30·065	+·031	85·4	46·4	76·6	54·9	65·8	+1·1	74	—	2·6	—	1·31
		Arrah	29·945	29·770	29·844	30·054	+·035	84·8	44·9	76·6	54·3	65·5	+1·2	85	—	1·9	—	0·98
	Gya	Gya	29·772*	29·607*	29·681*	30·082*	+·035	86·4	47·5	78·9	56·7	67·9	−0·7	73	+28	2·0	−0·2	3·13
	Patna	Bankipore	29·975	29·794	29·864	30·057	+·015	83·9	43·9	76·2	55·5	65·9	+0·6	78	+21	3·1	+0·6	1·52
	South Bhagulpore and Monghyr.	Bhagulpore	29·982	29·773	29·876	30·046	+·031	84·2	47·0	75·8	56·3	66·1	+1·5	76	—	1·3	—	1·80
	Sonthal Pergunnahs	Naya Doomka	29·624	29·451	29·546	30·073	+·044	86·4	46·0	78·7	56·5	67·6	+0·8	76	-	0·4	—	1·16
Chota Nagpore.	Hazaribagh	Hazaribagh	28·090	27·921	27·997	30·087	+·028	85·4	44·9	77·0	54·7	65·9	−0·1	65	+28	1·8	−0·2	0·92
	Lohardugga, Maubhoom	Ranchee	27·957	27·773	27·865	30·066	+·022	85·3	45·5	78·2	54·0	66·2	+0·7	60	—	0·8	—	0·76
	Singbhoom	Chyebassa	29·363	29·188	29·278	30·072	+·043	94·0	48·8	86·1	58·5	72·4	+2·5	62	—	1·3	—	0·44
Assam	Assam	Sibsagar	29·872	29·622	29·766	30·123	+·050	82·0	41·7	74·5	53·7	64·1	+1·4	98	+17	6·5	+0·7	2·75
		Dhubri	30·018	29·795	29·933	30·057	+·020	84·0	50·2	76·1	57·8	67·0	+1·2	?	?	3·4	+1·9	1·70
		Silchar	30·046	29·820	29·955	30·067	+·019	91·0	46·9	81·7	56·2	69·0	+1·4	87	+17	4·5	+1·5	1·06

* Mean of 27 days.
† " of 26 "
‡ " 23 "

Bengal for the month of February 1889.

DISTRICT OBSERVATIONS. RAINFALL. Of month. Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Since 15th May 1888. Mean of district	Normal mean.	Variation	Mean number of rainy days.	Normal mean number of rainy days	Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
0·63	0·85	−0·22	1·3	1·8	44·75	56·48	−11·73	71·9	85·1	Pooree	Pooree	ORISSA.
—	—	—	—	—	—	—	—	—	—	Gopalpore		
—	—	—	—	—	—	—	—	—	—	False Point		
1·24	0·79	+0·45	1·2	1·8	53·11	52·77	+0·34	77·9	81·5	Cuttack	Cuttack	
1·24	1·04	+0·20	1·3	2·3	54·19	54·35	−0·16	70·2	79·5	Balasore	Balasore	
1·70	1·38	+0·32	2·7	2·3	56·69	63·75	−7·06	72·0	88·0	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
3·06	1·00	+2·06	2·7	1·9	65·26	52·57	+12·69	74·1	74·2	Midnapore	Midnapore	
2·07	1·25	+0·82	3·1	2·5	64·56	52·91	+11·65	82·1	92·8	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
0·44	1·03	−0·59	1·7	2·2	56·62	47·74	+8·88	76·6	78·1	Burdwan	Burdwan	
1·18	0·67	+0·51	3·3	2·0	53·40	52·95	+0·45	76·8	84·5	Bankoora	Bankoora	
0·84	0·98	−0·14	2·5	2·0	58·93	52·60	+6·33	87·6	85·9	Ranigunge	West Burdwan and Beerbhoom.	
0·93	0·79	+0·14	3·0	1·8	49·71	51·34	−1·63	83·7	81·0	Berhampore	Moorshedabad	
0·68	1·04	−0·36	1·8	2·0	55·12	50·18	+5·24	73·8	80·2	Krishnagore	Nuddea	
0·68	1·11	−0·43	2·5	2·2	45·12	54·33	−9·21	76·4	87·1	Jessore	Jessore and Khoolna	
0·70	0·73	−0·03	2·0	1·7	126·47	114·51	+11·96	105·5	109·6	Chittagong	Chittagong	EAST BENGAL.
1·29	0·87	+0·42	2·5	2·3	73·69	82·47	−8·78	99·0	116·7	Demagri	Chittagong Hill Tracts	
1·42	1·05	+0·37	2·5	2·1	73·52	78·06	−4·54	84·8	107·9	Barrisal	Backergunge	
1·50	1·05	+0·45	2·0	2·3	107·26	108·16	−0·90	100·5	110·4	Noakholly	Noakholly	
0·50	1·20	−0·70	1·3	2·3	48·42	56·92	−8·50	70·6	89·1	Furreedpore	Furreedpore	
0·61	1·21	−0·60	2·5	2·7	56·73	60·81	−4·08	86·7	94·0	Dacca	Dacca	
0·95	1·02	−0·07	1·8	2·6	63·03	70·33	−7·30	82·5	99·3	Commillah	Commillah	
0·23	0·93	−0·70	1·2	1·8	67·47	68·24	−0·77	94·0	90·8	Mymensingh	Mymensingh	NORTH BENGAL.
0·81	0·78	+0·03	2·5	1·5	49·45	58·01	−11·56	81·7	79·3	Bogra	Bogra	
0·42	1·05	−0·63	2·5	2·0	42·47	54·40	−11·93	94·0	83·3	Serajgunge	Pubna	
0·68	0·84	−0·16	2·5	1·5	47·92	54·72	−6·80	84·0	78·6	Rampore Beauleah.	Rajshahye	
0·50	0·59	−0·09	3·0	2·1	43·83	54·81	−10·98	78·5	85·9	Maldah	Maldah	
0·92	0·45	+0·47	2·4	1·6	49·49	57·85	−8·36	78·5	79·8	Dinagepore	Dinagepore	
0·82	0·43	+0·39	2·5	1·4	59·23	74·26	−15·03	79·9	77·9	Rungpore	Rungpore	
1·79	0·31	+1·48	2·2	1·5	89·95	111·56	−21·61	96·2	98·6	Julpigoree	Julpigoree and Cooch Behar.	
1·94	0·61	+1·33	0·3	2·7	102·54	121·98	−19·44	124·7	116·4	Darjeeling	Darjeeling Hill Tracts	
0·64	0·50	+0·14	2·3	1·4	51·29	59·18	−7·89	73·8	71·5	Purneah	Purneah and North Bhagulpore.	NORTH BEHAR.
1·43	0·39	+1·04	5·3	1·6	43·92	43·93	−0·01	68·0	59·4	Mozufferpore	Mozufferpore	
1·10	0·40	+0·70	3·7	1·2	43·15	45·12	−1·97	68·4	59·1	Durbhunga	Durbhunga	
1·65	0·38	+1·27	4·5	1·2	44·73	47·17	−2·44	68·0	55·4	Motihari	Chumparun	
1·30	0·41	+0·89	4·0	1·3	41·39	43·39	−2·00	66·7	59·1	Chupra	Sarun	
0·95	0·37	+0·58	3·2	1·3	43·75	40·45	+3·30	65·6	62·4	Dehree, Buxar, Arrah	Shahabad	SOUTH BEHAR.
1·64	0·42	+1·22	4·0	1·4	52·45	42·04	+10·41	69·2	59·2	Gya	Gya	
2·03	0·41	+1·62	4·3	1·3	51·02	41·73	+9·29	70·0	63·6	Bankipore	Patna	
1·36	0·52	+0·84	4·0	1·4	52·50	43·89	+8·61	79·[illegible]	67·7	Bhagulpore	South Bhagulpore and Monghyr.	
0·76	0·47	+0·29	3·3	1·4	55·22	51·26	+3·96	86·5	77·3	Naya Doomka	Sonthal Pergunnahs	
0·95	0·56	+0·40	3·4	1·5	58·22	51·01	+7·21	87·0	82·7	Hazaribagh	Hazaribagh	CHUTIA NAGPUR.
0·92	0·64	+0·28	2·3	2·0	51·77	49·77	+2·00	84·8	88·3	Ranchee	Lohardugga	
0·58	0·94	−0·36	3·0	2·3	47·81	47·86	−0·05	94·6	86·3	Ranchee	Manbhoom	
0·33	0·84	−0·51	1·0	2·2	40·98	52·42	−11·44	71·0	94·5	Chyebassa	Singbhoom	
......	......	......	......	......	......	......	......	......	......	Sibsagar	Assam	ASSAM.
......	......	......	......	......	......	......	......	......	......	Dhubri		
......	......	......	......	......	......	......	......	......	......	Silchar		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ..	Pooree	Pooree ...																			0'10	0'17
		Khurdah ...																			0'22	
		Banpur ..																			0'64	1'40
		False Point ..																				0'64
		Gop .																				
		Pipli ...																				
	Cuttack .	Jagatsingpore																			2'43	
		Banki																			1 22	
		Cuttack .																			0'33	1'00
		Kendrapara .																			0'38	
		Jajpore ..																			0'85	
		Dharmsalla ...																			0'50	
		Salipore ...																			0'10	0'80
	Balasore ..	Chandbali ...																			0'38	1'80
		Bhuddruck ..																			1'60	
		Sorah ..																			0 72	
		Balasore ...																			0 66	0'40
		Jellasore ..																			1'70	
		Baripodah ..											0 18									
SOUTH-WEST BENGAL.	Midnapore	Contai .				0'08															1'21	0'49
		Saugor Island												0 60							1'08	0 43
		Tumlook												1 50							0 70	1 10
		Midnapore .												0 07							4 10	
		Ghatal ..												0 44							0 99	0 21
		Kukrahaty												0 35							1'14	0 58
		Heria												0 81							1'17	0'15
		Bhagwanpore																			4 00	0 13
		Garbeta ...																			0'20	1'00
	24-Pergunnahs	Diamond Harbour												0 44							0 93	0'42
		Canning Town												0'14							0'30	0 80
		Alipore Jail												1 06							1 07	0'47
		Barrackpore	0 15											1 40							0'42	0'55
		Dum-Dum												0 67							0 73	0'98
		Baraset ...	0 80											0 8[illegible]							0 70	0'42
		Buseerhat ..	0'10											0 57							0 20	0'53
	Howrah ..	Howrah ..												1 01							1'06	0'53
		Mohesreka (*Oolooberiah*).												1 1[illegible]							1 59	0 82
	Hooghly ..	Serampore .	0'25											0 35							0 47	0'58
		Hooghly												0 1[illegible]							0 60	0 25
		Jehanabad .												0 06							0 60	0 52
	Burdwan .	Culna												0 12							0 08	0 25
		Burdwan ..												0 60								0 28
		Cutwa ..												0 25							0 11	0 05
		Raneegunge												0 89								0 35
		Mankur ..																				
	Bankoora ..	Bankoora ..												0 07							0 08	0'24
		Bishenpore ...												0 15							0 57	0 85
		Mallara .												0 65							0 12	0 51
		Khatra	0'10											0 20							0 42	0 95
		Indas .												0 10							0 12	0 42
		Kotalpore .												0 [illegible]					0 10	0 05	0 73	
		Anda												1 [illegible]							0 30	
		Gangajalghati												0 28							0'45	
		Raipore												0 21							0 05	0 21
		Sonamukhi .																				
	Beerbhoom .	Bh. Soory .												0'76							0 68	0'27
		Hetampore												0 76							0 11	
		Rampore Haut												0 73							0 69	0 27
		Bolpur ..																				
		Murarai .																			0 29	0 15
	Nuddea ..	Ranaghat												0 37							0 14	
		Kishnaghur ...												0 69								0 20
		Choodanga ..												0 57								
		Meherpore ...												0 53								0'23
		Kooshtea ..																				
	Khoolna ..	Satkhira ...	0 03											0'30							0 20	0'40
		Bagirhat ..	0 10											0 10								0'08
		Khoolna ...	0'08																			0'28
	Jessore ...	Narail ...	0 09											0 20								0'71
		Jessore ...	0'10											0'65								0 15
		Jhenidah ...												0 20								0'15
		Magoorah ...												0'25								0 13
		Bongong ...																				0'90
	Moorshedabad	Kandi ...												0'55							0'04	0 30
		Berhampore...												0 55							0 04	0 31
		Lalbagh ...												0 [illegible]0							0 10	0'11
		Azimgunge ...												0'30							0 25	0'27
		Jungipore ...												0 20							0 54	0 27
		Lalgola .												0 10							0 95	0 09
		Jiagunge ..												0 50							0 2[illegible]	0'26
		Akriganj ..												0 52							0'76	0 33
		Patkabari ..																				
EAST BENGAL	Chittagong ...	Cox's Bazar ..	0'27																			0'31
		Chittagong .	0'54																			
		Kutubdia ...	0 53																			0 22
		Satkanya ..	0'04																			
	Chittagong Hill Tracts	Rangamati ..	0'57																			0'97
		Ruma ...	0 90																			0'10
	Backergunge	Patuakhally ..	0'67																		0'50	1'50
		Ferozepore .	0 39																		0'41	0 35
		Burrisal	0'64																		0'3[illegible]	0 40
		Bhola ..																				0 50
		Gournadi ..	1 00																		0'13	0'55
		Bauphal ..																				1'00
	Noakholly ...	Noakholly ...	1 08																			0'47
		Fenny ...	1'10																			0'35

in Bengal in February 1889.

21	22	23	24	25	26	27	28	Number of rainy days	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 28th February 1889.	Average rainfall from 1st January up to 28th February 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	1	1·7	0·17	1·08	0·17	0·17	1·33	Pooree ...	Pooree.	ORISSA.
...	...	...	...	...	...	...	...	1	2·2	0·10	0·68	0·10	0·10	0·94	Khurdah.		
...	...	...	...	...	...	...	...	1	1·6	0·22	0·98	0·22	0·22	1·07	Banpur.		
...	...	...	...	...	...	...	...	2	1·8	2·04	0·93	1·40	2·04	1·48	False Point.		
...	...	...	...	...	...	...	...	1	?	0·64	?	0·64	0·64	?	*Gop.*		
									?		?			?	*Pipli.*		
...	...	...	...	...	...	...	...	1	0·9	2·43	0·70	2·43	2·43	1·03	Jagatsingpore	Cuttack	
...	...	...	...	...	...	...	...	1	3·0	1·22	0·73	1·22	1·31	0·98	Banki.		
...	...	...	...	...	...	...	...	1	2·0	0·34	0·55	0·33	0·34	0·93	Cuttack.		
...	...	...	...	...	...	...	...	2	1·2	1·38	0·76	1·00	1·38	1·18	Kendrapara		
...	...	...	...	...	...	...	...	1	1·7	0·85	1·28	0·85	1·15	1·70	Jajpore		
...	...	...	...	...	...	...	...	1	?	0·50	?	0·50	0·50	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	2	?	0·90	?	0·80	0·90	?	*Salipore.*		
...	...	...	...	...	...	...	...	1	1·8	1·80	1·07	1·80	1·80	1·52	Chandbali .	Balasore	
...	...	...	...	...	...	...	...	1	2·3	0·38	1·27	0·38	0·88	1·67	Bhuddruck.		
...	...	...	...	...	...	...	...	1	1·9	1·60	0·89	1·60	1·60	1·12	Sorah.		
...	...	...	...	...	...	...	...	1	2·9	0·72	1·26	0·72	0·72	1·96	Balasore.		
...	...	...	...	...	...	...	...	2	2·1	1·06	1·02	0·66	1·06	1·70	Jellasore.		
...	...	...	...	...	...	...	...	2	2·6	1·88	0·80	1·70	1·88	1·08	Baripodah.		
...	...	...	...	...	...	...	...	3	1·8	1·78	1·40	1·21	1·78	1·60	Contai .	Midnapore.	
...	...	...	...	...	...	...	...	2	2·3	1·51	1·18	1·08	1·51	1·51	Saugor Island		
...	...	...	...	...	...	...	...	3	1·6	2·40	1·28	1·10	2·40	1·64	Tumlook		
...	...	...	...	...	...	...	...	2	2·1	5·00	1·01	4·10	7·27	1·78	Midnapore.		
...	...	...	...	...	...	...	...	3	2·0	1·27	0·92	0·99	1·73	1·42	Ghatal		
...	...	...	...	...	...	...	...	3	?	2·14	?	1·13	2·23	?	*Kukrahaty.*		
...	...	...	...	...	...	...	...	3	?	1·67	?	1·17	1·70	?	*Heria.*		
...	...	...	...	...	...	...	...	3	?	4·94	?	4·00	6·12	?	*Bhagwanpore.*		
...	...	...	...	...	...	...	...	2	?	1·20	?	1·00	1·18	1·59	*Garbeta.*		
...	...	...	...	...	...	...	...	3	2·9	1·79	1·68	0·93	1·79	2·27	Diamond Harbour	24-Pergunnahs	
...	...	...	...	...	...	...	...	3	?	1·24	?	0·80	1·81	?	*Canning Town*		
...	...	...	...	...	...	...	...	3	3·1	2·60	1·53	1·07	2·87	2·22	Alipore Jail.		
...	...	...	...	...	...	...	...	4	2·1	1·52	1·29	0·55	1·62	1·72	Barrackpore.		
...	...	...	...	...	...	...	...	3	2·6	2·38	1·19	0·98	2·82	1·71	Dum-Dum.		
...	...	...	...	...	...	...	...	4	2·6	2·73	1·37	0·81	2·95	1·94	Baraset.		
...	...	...	...	...	...	...	...	4	2·1	1·46	1·06	0·57	1·73	1·47	Buseerhat.		
...	...	...	...	...	...	...	...	3	2·6	2·63	1·33	1·06	2·78	1·90	Howrah ..	Howrah.	SOUTH-WEST BENGAL.
...	...	...	...	...	...	...	...	3	2·5	3·53	1·59	1·50	3·95	2·09	Mohesrekha (*Ooloobertah*).		
...	...	...	...	...	...	...	...	4	2·9	1·65	1·26	0·58	1·92	1·67	Serampore ...	Hooghly.	
...	...	...	...	...	...	...	...	3	2·3	1·00	1·06	0·60	1·18	1·80	Hooghly.		
...	...	...	...	...	...	...	...	3	2·3	1·18	1·27	0·60	1·86	1·67	Jehanabad.		
...	...	...	...	...	...	...	...	2	1·8	0·37	1·04	0·25	1·10	1·46	Culna ...	Burdwan.	
...	...	...	...	...	...	...	...	2	2·4	0·38	0·70	0·28	0·72	1·10	Burdwan.		
...	...	...	...	...	...	...	...	1	2·3	0·60	1·13	0·60	1·20	1·59	Cutwa.		
...	...	...	...	...	...	...	...	3	2·1	0·41	1·15	0·25	1·84	1·51	Raneegunge.		
...	...	...	...	...	...	...	...	2	?	1·24	?	0·89	2·42	?	*Mankur.*		
...	...	...	...	...	...	...	...	3	2·4	0·39	1·05	0·24	0·94	1·41	Bankoora ..	Bankoora.	
...	...	...	...	...	...	...	...	3	1·5	1·57	0·77	0·85	2·52	1·19	Bishenpore.		
...	...	...	...	...	...	...	...	3	1·9	1·08	0·67	0·65	1·73	1·02	Malhara.		
...	...	...	...	...	...	...	...	4	2·0	1·07	0·66	0·95	1·67	1·15	Khatra.		
...	...	...	...	...	...	...	...	2	?	0·54	?	0·42	0·65	?	Indas		
...	...	...	...	...	...	...	...	2	?	0·83	?	0·73	2·12	?	Kotalpore.		
...	...	...	...	...	...	...	...	4	?	0·95	?	0·50	1·20	?	Anda.		
...	...	...	...	...	...	...	...	1	?	1·33	?	1·33	1·80	?	Gangajalghati.		
...	...	...	...	...	...	...	...	2	?	0·75	?	0·45	0·73	?	*Raipore.*		
...	...	...	...	...	...	...	...	3	?	0·47	?	0·21	1·04	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	3	2·2	1·11	0·94	0·76	2·23	1·42	Bh Soory .	Beerbhoom	
...	...	...	...	...	...	...	...	2	1·8	0·87	0·96	0·76	2·23	1·54	Hetampore.		
...	...	...	...	...	...	...	...	2	1·7	0·96	0·84	0·69	3·14	1·48	Rampore Haut		
...	...	...	...	...	...	...	...	1	?	0·73	?	0·73	2·15	?	*Bolpur*		
									?		?			?	*Murarai.*		
...	...	...	...	...	...	...	...	2	1·7	0·44	0·95	0·29	2·16	1·47	Ranaghat ...	Nuddea	
...	...	...	...	...	...	...	...	2	2·2	0·51	1·01	0·37	1·65	1·46	Kishnaghur		
...	...	...	...	...	...	...	...	2	1·9	0·80	1·10	0·60	1·74	1·44	Chooadanga.		
...	...	...	...	...	...	...	...	1	1·8	0·87	1·02	0·87	3·02	1·42	Meherpore.		
...	...	...	...	...	...	...	...	2	2·2	0·76	1·09	0·54	[illegible]	1·48	Kooshtea.		
...	...	...	...	...	...	...	...	4	2·2	0·93	0·93	0·40	1·79	1·36	Satkhira ..	Khoolna	
...	...	...	...	...	...	...	...	2	1·8	0·78	1·25	0·68	1·07	1·85	Bagirhat.		
...	...	...	...	...	...	...	...	3	2·2	0·46	1·19	0·28	0·71	1·77	Khoolna.		
...	...	...	...	...	...	...	...	3	2·6	1·00	1·15	0·71	1·73	1·84	Narail ...	Jessore	
...	...	...	...	...	...	...	...	3	2·7	0·50	0·83	0·15	0·79	1·34	Jessore.		
...	...	...	...	...	...	...	...	2	2·2	0·65	1·07	0·50	1·50	1·43	Jhenidah.		
...	...	...	...	...	...	...	...	2	2·2	0·38	1·01	0·25	1·03	1·34	Magoorah.		
...	...	...	...	...	...	...	...	1	1·5	0·90	1·03	0·90	1·55	1·43	Bongong.		
...	...	...	...	...	...	...	...	3	1·6	0·80	0·85	0·35	1·65	1·30	Kandi ...	Moorshedabad	
...	...	...	...	...	...	...	...	3	2·1	0·90	0·92	0·55	2·25	1·39	Berhampore.		
...	...	...	...	...	...	...	...	3	1·4	0·81	0·80	0·60	2·69	1·37	Lalbagh.		
...	...	...	...	...	...	...	...	3	2·1	0·8[illegible]	0·77	0·30	3·26	1·44	Azimgunge.		
...	...	...	...	...	...	...	...	3	1·8	1·00	0·75	0·53	3·97	1·30	Jungipore.		
...	...	...	...	...	...	...	...	3	1·6	1·14	0·67	0·95	3·48	1·38	Lalgola.		
...	...	...	...	...	...	...	...	3	?	0·81	?	0·30	2·70	?	Jangipore.		
...	...	...	...	...	...	...	...	3	?	1·41	?	0·76	5·77	?	*Akhriganj.*		
									?		?			?	*Patkabari.*		
0·23	...	...	...	...	...	...	...	2	1·3	0·50	0·49	0·27	0·50	1·22	Cox's Bazar .	Chittagong ..	EAST BENGAL.
...	...	...	...	...	...	...	...	2	2·0	0·90	1·15	0·79	0·90	1·08	Chittagong.		
...	...	...	...	...	...	...	...	1	?	0·53	?	0·53	0·[illegible]	?	*Kutubdia.*		
...	...	...	...	...	...	...	...	2	?	0·26	?	0·23	0·26	?	*Satkanya.*		
...	...	...	...	...	...	...	...	2	2·4	1·54	1·16	0·97	1·54	1·70	Rangamati ...	Chittagong Hill Tracts.	
0·04	...	...	...	...	...	...	...	3	2·1	1·04	0·61	0·90	1·04	1·29	Ruma.		
...	...	...	...	...	...	...	...	3	1·8	2·67	1·22	1·50	2·67	1·95	Patuakhally ...	Backergunge	
...	...	...	...	...	...	...	...	2	2·1	0·74	1·27	0·39	1·01	1·95	Perozepore.		
...	...	...	...	...	...	...	...	3	2·6	1·15	0·95	0·64	2·05	1·67	Burrisal.		
...	...	...	...	...	...	...	...	2	1·8	0·80	0·52	0·[illegible]	1·06	1·57	Bhola.		
...	...	...	...	...	...	...	...	2	?	1·[illegible]	?	1·00	1·[illegible]	?	*Gournaddi.*		
...	...	...	...	...	...	...	...	[illegible]	?	1·13	?	1·00	1·16	?	*Bauphal.*		
...	...	...	...	...	...	...	...	2	2·2	1·55	0·83	1·08	1·55	1·41	Noakholly ...	Noakholly.	
...	...	...	...	...	...	...	...	2	[illegible]	1·1[illegible]	1·22	1·10	1·45	1·95	Fenny.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL —concld.	Noakholly—concld.	*Harishpore*	0·32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·52
		Ramganj	0·78	...	...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	...	...	...	0·76
	Furreedpore	Madaripore	...	...	...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	...	...	...	0·66
		Furreedpore	0·40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08
	Dacca	Munshigunge	0·11	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...	...	...	0·50
		Dacca	0·87	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...	0·04	...
		Narainganj	0·48	...	...	...	...	...	...	...	...	...	...	0·14	...	...	...	...	...	...	...	...
		Manickgunge	0·02	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	...	...	...
		Joydebpore	0·13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola	0·52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·13
	Tipperah	Comilla	0·13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·44
		Chandpore	0·60	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...	...	0·06
		Brahmunberia	0·91	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandrapore.	0·48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nasirnagar	0·40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dandkandi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30
		Kasba	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham	1·99	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	...	...	...	...
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	...	...	...	...	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	...	...	0·33	0·05
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	...	...	...
		Jamalpore	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...	...	...
		Netrokona	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...	...
		Subornakhally	...	...	...	...	...	...	...	...	...	...	...	0·17	...	...	...	...	...	...	0·18	0·10
		Durgapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·04	0·11
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	0·49	...	...	...	...	...	...	0·03	...
		Dewanganj	...	...	...	...	...	...	...	...	...	...	...	0·17	...	...	...	...	...	...	...	...
NORTH BENGAL	Pubna	Pubna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·77	...
		Serajgunge	...	...	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...	0·80	0·15
	Bogra	Sherpore	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	0·18	0·12
		Nowkhilla	...	...	...	...	...	...	...	...	...	...	...	0·14	...	...	...	...	...	...	0·30	...
		Bogra	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...	0·21	0·31
		Panchbibi	...	...	...	...	...	...	...	...	...	...	...	0·49	...	...	...	...	...	...	0·20	...
	Rajshahye	Beauleah	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...	0·37	0·80
		Nattore	...	...	...	...	...	...	...	...	...	...	...	0·42	...	...	...	...	...	...	...	...
		Naogaon	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...	...	...	...	...	...
		Lalpore	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	0·05	...
		Manda	...	...	...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	...	...	0·13	0·02
	Maldah	Maldah	0·03	...	...	...	...	...	...	...	...	...	...	0·54	...	...	...	...	...	0·33	0·21	0·06
		Chanchal	...	...	...	...	...	...	...	...	...	...	...	0·62	...	...	...	...	...	...	...	...
		Gajol	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	...	...	...
		Sibganj	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	0·37	0·19	0·23
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	...	...	...	...	1·30	...	...	...	...	...	...	0·14	0·87
		Chutamon	...	...	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...	0·11	...
		Raigunge	...	...	...	...	...	...	...	...	...	...	...	0·46	...	...	...	...	...	...	0·17	0·57
		Dinagepore	...	...	...	...	...	...	...	...	...	...	...	0·34	...	...	...	...	...	...	...	0·22
		Baloorghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon	...	...	...	...	...	...	...	...	...	...	...	0·29	...	...	...	...	...	...	...	...
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	...	...	...	...	0·68	...	...	...	...	...	...	0·02	0·23
		Rungpore	...	...	...	...	...	...	...	...	...	...	...	0·52	...	...	...	...	...	...	...	0·09
		Kurigram	...	...	...	...	...	...	...	...	...	...	...	1·15	...	...	...	...	...	...	...	0·06
		Bagdogra (*Nilphamari*)	0·02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·78
		Ulipore	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...	0·68
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...	0·90
		Alipore Doar	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	...	...	...	...	...	0·80
		Falacotta	...	...	...	...	...	...	...	...	...	...	...	0·07	...	...	...	...	...	0·06	...	1·42
		Debiganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·02
		Bhogolpore (*Nagrakatta*)	0·37	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...	0·25	...	0·60
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	...	...	...	...	0·33	...	...	...	...	...	...	...	1·97
		Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...	...	2·15
		Meckligunge	...	...	...	...	...	...	...	...	...	...	...	0·26	...	...	...	...	...	...	...	1·[illegible]9
		Matabhanga	...	...	...	...	...	...	...	...	...	...	...	0·45	...	0·02	...	0·01	...	...	...	1·85
	Darjeeling Hill	Buxa	0·10	...	0·03	0·08	...	...	...	...	...	...	0·24	0·13	...	...	...	...	...	0·13	0·08	0·68
		Siliguri	...	...	...	...	...	...	...	...	...	...	0·11	0·09	...	...	...	...	...	0·66	0·31	1·23
		Darjeeling	...	...	0·06	...	...	...	...	...	...	...	...	0·19	...	...	...	...	...	0·37	...	0·66
		Kalimpong	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	0·16	...	...
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	0·29	...	...	...	...	...	...	...	0·2[illegible]
		Arrareah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08
		Purneah	...	...	...	...	...	...	...	...	...	...	0·75	...	...	...	...	...	...	...	...	...
		Gondwara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...	0·17
		Matiari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliaganj	...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	...	0·33	1·10
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...	...	0·44	0·62
		Soopool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·90	...	0·85
	Durbhunga	Tajpore	...	...	...	...	...	...	...	...	...	...	0·14	0·04	...	...	...	...	...	0·23	...	0·28
		Durbhunga	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	...	0·03	...	0·66
		Madhubani	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	0·40	0·09	...	0·60
		Bahera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50
		Roshera	...	...	...	...	...	...	...	...	...	...	0·20	0·15	...	...	...	...	...	0·14	...	0·28
	Mozufferpore	Sitamarhi	...	...	...	...	...	...	...	...	...	...	0·15	0·60	...	...	...	...	0·33	0·24	...	0·54
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	0·15	0·10	...	...	...	...	0·75	0·32	...	0·04
		Hajipore	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...	...	...	0·29	...	...	0·10
		Paru	...	...	...	...	...	...	...	...	...	...	0·16	...	...	...	...	...	0·62	0·36	...	0·17
		Mahua	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...	...	...	0·45	...	...	0·45
		Sisuhar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri	...	...	...	...	...	...	...	...	...	...	0·37	...	...	...	...	...	0·36	...	...	0·21
	Chumparun	Motihari	0·26	...	...	...	...	...	...	...	...	...	0·45	...	...	...	...	...	...	0·51	0·80	0·67
		Bettiah	...	...	...	...	...	...	...	...	...	...	0·47	...	...	...	...	...	0·32	0·31	0·10	0·27
		Bagaha	...	...	...	...	...	...	...	...	...	...	0·31	...	...	...	...	...	0·46	...	...	0·57
	Sarun	*Barharwa*	...	...	...	...	...	...	...	...	...	...	0·33	...	...	...	...	...	0·45	...	...	0·85
		Gopalgunge	...	...	...	...	...	...	...	...	...	...	0·13	0·33	...	...	...	...	0·63	0·05	0·12	0·31
		Sewan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in February 1889—*continued.*

21	22	23	24	25	26	27	28	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 28th February 1889.	Average rainfall from 1st January up to 28th February 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	2	?	0·84	?	0·52	0·84	?	*Harishpore** ..	Noakholly—*concld*	EAST BENGAL—concld
...	...	...	...	...	...	...	...	2	?	1·54	?	0·78	1 68	?	*Ramganj.*		
...	...	...	...	...	...	...	...	1	2·1	0·66	0·95	0·66	1·06	1 57	Madaripore ..	Furreedpore.	
...	...	...	...	...	...	...	...	2	2·6	0·62	1·26	0·40	1·32	1·62	Furreedpore.		
...	...	...	...	...	...	...	...	1	2·1	0·22	1·17	0·22	1·19	1·60	Goalundo.		
...	...	...	...	...	...	...	...	2	2·5	0·19	1 28	0·11	0·64	1·81	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	...	2	2·9	0·99	1·01	0·87	1·33	1·31	Dacca.		
...	...	...	...	...	...	...	...	3	2 8	1·04	1·16	0·50	1 33	1·47	Naraingunge.		
...	...	...	...	...	...	...	...	3	2·4	0·20	1·09	0·14	1 89	1·61	Manickgunge		
...	...	...	...	...	...	...	...	2	?	0·24	?	0·13	0·61	?	*Joydebpore.*		
...	...	...	...	...	...	...	...	1	2·1	0 52	1·09	0·52	0·94	1·90	Agartola ...	Hill Tipperah.	
...	...	...	...	...	...	...	...	2	3·1	1·26	0·90	1·13	1·26	1·49	Comilla ...	Tipperah.	
...	...	...	...	...	...	...	...	2	2·2	1·04	0·89	0·60	1·72	1·42	Chandpore.		
...	...	...	...	...	...	...	...	2	2·8	0·97	1·29	0·91	1·36	2·03	Brahmunberia.		
...	...	...	...	...	...	...	...	2	?	0·63	?	0·48	0·65	?	*Ramchandra-pore.*		
...	...	...	...	...	...	...	...	1	?	0·40	?	0·40	0·65	?	*Nasirnagar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	1	?	0 05	?	0·05	0·37	?	*Kasba.*		
...	...	...	...	...	...	...	...	2	?	2·29	?	1·99	2·29	?	*Laksham.*		
...	...	...	...	...	...	...	...	1	2·2	0·21	0·82	0·21	0·90	1·39	Kishoregunge	Mymensingh	
...	...	...	...	...	...	...	...	1	1·9	0·24	1·13	0·24	1 28	1·56	Atia (*Tangail*)		
...	...	...	...	...	...	...	...	1	2·2	0·21	1·16	0·21	0·78	1 52	Mymensingh.		
...	...	...	...	...	...	...	...	3	1 5	0·49	1·04	0·38	2·33	1 54	Jamalpore.		
...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·46	Nil	0 80	0 60	Netrokona.		
...	...	...	...	...	...	...	...	1	?	0·06	?	0·06	1 38	?	*Subornakhally*		
...	...	...	...	...	...	...	...	1	?	0 20	?	0·20	2·10	?	*Durgapore*		
...	...	...	...	...	...	...	...	3	?	0·45	?	0·18	2·11	?	Sherepore town		
...	...	...	...	...	...	...	...		?		?			?	*Dewangunj.*		
...	...	...	...	...	...	...	...	3	2 3	0 64	1·11	0·49	1·17	1·50	Pubna ...	Pubna ...	NORTH BENGAL
...	...	...	...	...	...	...	...	2	1·7	0·20	0·97	0·17	2·32	1·50	Serajgunge.		
...	...	...	...	...	...	...	...	2	1·2	1·09	0 91	0·77	2·45	1·33	Sherpore ...	Bogra.	
...	...	...	...	...	...	...	...	3	1·8	1·15	0 87	0·80	2 59	1 31	Nowkhilla.		
...	...	...	...	...	...	...	...	3	1·8	0 44	0·94	0·18	2 40	1·42	Bogra.		
...	...	...	...	...	...	...	...	2	1·3	0 55	0·52	0 30	3·78	1·07	Panchbibi.		
...	...	...	...	...	...	...	...	3	1·8	1·01	0·89	0·49	2·79	1 22	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	2	1·2	0·35	0·86	0 20	3·05	1 58	Nattore.		
...	...	...	...	...	...	...	...	3	?	1·59	?	0·80	4 40	?	*Naogaon.*		
...	...	...	...	...	...	...	...	1	?	0·40	?	0 40	1 28	?	*Lalpore.*		
...	...	...	...	...	...	...	...	1	?	0·20	?	0·20	3 20	?	*Manda.*		
...	...	...	...	...	...	...	...	3	1·8	0·30	0 72	0·22	4·19	1·45	Maldah .	Maldah.	
...	...	...	...	...	...	...	...	3	2 4	0·69	0·66	0·54	2·83	1·30	Chanchal.		
...	...	...	...	...	...	...	...	2	?	0 95	?	0·62	3·54	?	*Gajol.*		
...	...	...	...	...	...	...	...	3	?	0·36	?	0 21	3 05	?	*Sibganj.*		
...	...	...	...	...	...	...	...	2	1·7	0 48	0·51	0·37	3·76	1·08	Mohadebpore .	Dinagepore.	
...	...	...	...	...	...	...	...	3	1 4	1 72	0·47	1·30	4·82	1·10	Churamon.		
...	...	...	...	...	...	...	...	3	1 4	1 33	0 57	0 87	4·37	1·33	Raigunge.		
...	...	...	...	...	...	...	...	2	1·8	0·57	0 57	0 46	2·99	0·83	Dinagepore.		
...	...	...	...	...	...	...	...	2	1 6	0 51	0 29	0 34	3·46	0 91	Baloorghat		
...	...	...	...	...	...	...	...	1	?	0·57	?	0·57	3 04	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	2	1·2	0 51	0 51	0·29	3·30	0·98	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	3	1·7	0·93	0·40	0·68	3·68	0 91	Rungpore.		
...	...	...	...	...	...	...	...	2	1·2	0 61	0 33	0·52	2·97	0·97	Kurigram.		
...	...	...	...	...	...	...	...	3	1·5	1·23	0 57	1 15	3 51	1·19	Bardogra. (*Nilphamari*)		
...	...	...	...	...	...	...	...	1	?	0·78	?	0·78	2·28	?	*Ulipore.*		
...	...	...	...	...	...	...	...	2	1 4	0·88	0·33	0·68	3·34	0·96	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	2	?	1 10	?	0·90	2·78	?	*Alipore Doar.*		
...	...	...	...	...	...	...	...	1	?	0·80	?	0·80	2 50	?	*Falacotta.*		
...	...	...	...	...	...	...	...	2	?	1 66	?	1 42	3 94	?	*Debiganj.*		
...	...	...	...	...	...	...	...	4	?	1·52	?	1 04	3·20	?	Bhogotpore (*Nagrakatta.*)		
...	...	...	...	...	...	...	...	2	1·6	1·10	0 40	0·60	3·26	1·07	Dinhatta	Cooch Behar.	
...	...	...	...	...	...	...	...	3	1 4	2 51	0 41	1·97	5 17	0·96	Cooch Behar.		
...	...	...	...	...	...	...	...	2	1 4	2 47	0·45	2·15	4·35	0·84	Meckligunge.		
...	...	...	...	...	...	...	...	2	1 7	1 95	0 42	1·50	3 67	0 87	Matabhanga.		
...	0 10	...	...	...	...	...	...	7	3 0	2·70	1 00	1·85	4·94	2·17	Buxa ..	Darjeeling.	
...	...	...	...	...	...	...	...	5	0 8	1·00	0·27	0 68	3 06	1·18	Siliguri		
...	0·04	0·04	0·04	...	...	...	...	8	3 8	2 65	1·18	1 23	5 50	1·94	Darjeeling.		
...	...	...	...	...	...	...	...	5	3·3	1·39	0·73	0 66	4·31	2 02	Kalimpong.		
...	...	...	...	...	...	...	...	1	1 4	0·20	0 43	0 20	2·18	1·13	Kissengunge ..	Purneah ...	NORTH BEHAR.
...	...	...	...	...	...	...	...	2	1·2	0·36	0 52	0 20	2 55	1·13	Arrareah.		
...	...	...	...	...	...	...	...	2	1 0	0·37	0 54	0 29	2 95	1·11	Purneah.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·98	?	*Gondwara.*		
...	...	...	...	...	...	...	...	1	?	0·75	?	0 75	3·65	?	*Balarampore*		
...	...	...	...	...	...	...	...	2	?		?			?	*Mattari*		
...	...	...	...	...	...	...	...		?	0·36	?	0·19	1 98	?	*Kaliaganj*		
...	...	...	...	...	0·02	...	...	3	1·4	1·28	0·60	1·10	5·45	1·27	Maddapore ..	North Bhagulpore.	
...	...	...	...	...	...	...	...	3	1·0	1 01	0·43	0·62	4·38	1·05	Soopool.		
...	...	...	...	...	...	...	...	1	?	0 44	?	0·44	3 36	?	*Protabganj.*		
...	...	...	...	...	...	...	...	2	1·1	1·75	0·45	0·90	5 94	1·28	Tajpore ...	Durbhunga.	
...	...	...	...	...	0·02	...	...	4	1·5	0·67	0·44	0·28	3 90	1 11	Durbhunga.		
...	...	...	...	...	0 05	...	...	5	1 1	0 87	0 44	0 66	3 00	1 29	Madhubani.		
...	...	...	...	...	0 05	...	...	4	?	0·85	?	0·60	4 46	?	*Bahera.*		
...	...	...	...	...	...	...	...	2	?	0·90	?	0·50	4 23	?	*Roshera.*		
...	...	...	...	...	0 07	...	...	5	1 3	0 84	0·33	0·28	4 77	1 04	Sitamarhi .	Mozufferpore.	
...	...	...	...	...	0 12	...	...	5	1·4	1 56	0 59	0·53	5·00	1·53	Mozufferpore		
...	...	...	...	...	0·04	...	...	6	1 8	1·90	0 54	0 75	3 82	1 20	Hajipore		
...	...	...	...	...	...	...	...	4	?	1·80	?	1·10	3 37	?	*Paru*		
...	...	...	...	...	...	...	...	4	?	1·21	?	0·52	4 10	?	*Mahua.*		
...	...	...	...	...	...	...	...	3	?	1·25	?	0·45	15·12	?	*Siuhar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·40	?	*Pupri.*		
...	...	...	...	...	0·07	...	...	5	1·2	1·27	0 31	0·37	3·85	0·84	Motihari ...	Chumparun.	
...	...	...	...	...	...	...	...	4	1·1	2·02	0 50	0·67	3·83	1·25	Bettiah		
...	...	...	...	...	0·09	...	...	5	?	1·24	?	0 47	4 13	?	*Bagaha.*		
...	...	...	...	...	0·04	...	...	4	?	1 23	?	0 57	4 11	?	*Burhurwa.*		
...	...	...	...	...	0 12	...	...	4	1 2	1·75	0 54	0 85	5 04	1 37	Gopalgunge.	Sarun.	
...	...	...	...	...	0·12	...	...	4	1·6	1·01	0 50	0 45	5 61	1·30	Sewan		
...	...	...	...	...	...	...	...	4	1·1	1·13	0 46	0 63	3 22	1·21	Chuprah.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...	...	...	0·58	...	...	0·18
		Dehree ...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	...	0·63	0·08	...	...
		Bhuboosh ...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	0·40	...	0·30	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	...	0·40	...	0·05	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...	...	...	0·48	...	0·25	...
		Mohaniah ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	0·70	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	0·23	0·32	0·30	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	0·33	...	...	...	...	...	..	1·96	...	0 84
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	0·44	0·27	0·20
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	0·41	...	...	...	...	...	0·91	0·10	0·24	0·02
		Arwal ...	...	...	...	...	...	...	...	...	...	...	0 77	...	...	...	...	...	0·29	0 38	0 50	...
		Daudnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45	...	...	...
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	0·60	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	0·10	0·10	0·20	...
		Pakri Barawan.	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	0·45	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	0·22	0·06	...	...	...	...	0·92	0·26	...	0·06
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	...	0·48	0·20	...	0·32
		Behar ...	...	...	...	...	...	...	...	...	...	...	0·77	...	...	...	...	...	0·85	...	0·25	0·81
		Barrh ...	...	...	...	...	...	...	...	...	...	...	0 16	...	...	...	...	...	...	1·00	0·80	0·75
		Bickram ...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	...	0·20	...	0·10	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	0·60	...	...	...	...	...	0·57	0·32	...	0·70
	Monghyr ...	Begooserai ...	...	...	...	...	...	...	...	...	...	...	0·31	...	...	...	...	...	...	0·13	1·46	0·46
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	0·11	0·20	...	...	...	...	...	0·21	...	0·40
		Jamui ...	...	...	...	...	...	...	...	...	...	...	0·26	...	...	...	...	...	...	0·50	0·15	0·13
		Gogri ...	...	...	...	...	...	...	...	...	...	...	0·34	...	...	...	...	...	...	0·29	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...	...	...	...	0·60
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	0·02	1·09	...	...	...	...	..	...	0·20	0·39
		Banka ...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...	...	0·40	0·14
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	0·89	...	...	...	...	...	...	0 25	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...	...	0·22	0·10
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	0 25	...	...	...	...	...	0 02	0·50	0·11
		Pakour ...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...	0·45	0·15
		Nya Doomka	...	...	...	...	...	...	...	...	...	...	...	0 30	...	...	...	...	...	...	0·08	0·76
		Deoghur ..	...	...	...	...	...	...	...	...	...	...	0·15	0·04	...	...	...	...	..	0·07	...	0 19
		Jamtara ...	...	...	...	...	...	...	...	...	...	...	..	0·21	...	...	...	...	...	...	0·15	0·15
		Mohagama ..	...	...	...	...	...	...	...	...	...	...	...	0·95	...	...	...	...	...	...	1·05	0·45
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...	...	0 43
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (Giridi).	...	...	...	...	...	...	...	...	...	...	0·58	...	...	...	...	...	...	0·04	0·25	0·39
		Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	0·06	0·59	0·07	...
		Semtagurah .	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	0 52	0·13	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	0·85	...	...	..	...	...	0 20	0·30	0·20	...
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	0·45	...	...	...	...	..	0 42	...	0·15
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	1·76	1·85	...
		Karagdeha ...	...	...	...	...	...	...	...	...	...	...	0 30	0·25	...	...	...	...	...	..	...	0·10
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	0·83	0·94	...
		Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	0·65	0 10	...
		Palamow ...	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	0·13	..	..	...
		Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·50	0·20	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
		Hoseinabad ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·18	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...					
	Singbhoom ...	Chyebassa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·33	...
		Chakradharpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0 72	...
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·55	...
		Baharagura...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·42	0·15
		Gobindpore ...	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...	...	...	...	0·04	0·14	0·05
		Raghunathpore.	...	...	...	...	...	...	...	...	...	...	0 60	...	...	...	...	...	...	...	0 25	1·25
		Barrabhoom...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	0·50
		Jhalda ...	...	...	...	...	...	...	...	...												
		Chas ...	...	...	...	...	...	...	...	...												

in Bengal for the month of February 1889—*concluded.*

21	22	23	24	25	26	27	28	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 28th February 1889.	Average rainfall from 1st January up to 28th February 1889.	Station.	District.	Meteorological division.
...	...	...	...	0·13	...	...	...	4	1·6	1·22	0·36	0·58	2·56	1·17	Buxar ...	Shahabad ...	SOUTH BEHAR.
...	...	...	...	...	...	...	...	3	0·6	1·01	0·23	0·63	1·50	0·98	Dehree.		
...	...	...	...	...	...	...	...	3	1·2	0·80	0·51	0·40	1·80	1·18	Bhuboosh.		
...	...	...	...	...	...	...	...	3	1·6	0·66	0·49	0·40	1·16	0 99	Sasseram.		
...	...	...	...	...	...	...	...	3	1·6	1·08	0 55	0·48	2·72	1·41	Arrah.		
...	...	...	...	...	...	...	...	2	?	1·20	?	0·70	1·80	?	*Mohaniah.*		
...	...	...	...	...	...	...	...	4	1·4	0·90	0·38	0·32	1·58	0·99	Arungabad ...	Gya.	
...	...	...	...	...	...	...	...	3	1·8	3·13	0·58	1·06	3·85	1·31	Gya.		
...	...	...	...	...	...	...	...	4	1·1	0·86	0·48	0·44	2·98	1·25	Nowadah.		
...	...	...	...	...	...	...	...	5	1·1	1·68	0·47	0·91	3·58	1·25	Jehanabad.		
...	...	...	...	...	...	...	...	4	?	1·94	?	0·77	2·80	?	*Arwal.*		
...	...	...	...	...	...	...	...	1	?	0·45	?	0·45	0·55	?	*Daudnagar.*		
...	...	...	...	...	...	...	...	2	?	1·10	?	0·60	2·51	?	*Sheerghati.*		
...	...	...	...	...	...	...	...	4	?	0·55	?	0·20	0·65	?	*Rajauli.*		
...	...	...	...	...	...	...	...	2	?	0·65	?	0·45	1·65	?	*Pakri Barawan.*		
...	...	...	...	...	...	...	...	5	1·8	1·52	0·50	0·92	3·64	1·23	Patna ...	Patna.	
...	...	...	...	...	...	...	...	4	0·8	1·21	0·35	0·48	3·21	1·01	Dinapore.		
...	...	...	...	...	...	...	...	4	1·5	2·68	0·64	0·85	4 57	1·37	Behar.		
...	...	...	...	...	...	...	...	4	1·2	2·71	0·85	1·00	5·84	1·16	Barrh.		
...	...	...	...	...	...	...	...	3	?	0·60	?	0·80	1·90	?	*Bockram.*		
...	...	...	...	...	...	...	...	4	?	2·19	?	0·70	4·07	?	*Hilsa.*		
...	...	...	...	...	...	...	...	4	1·2	2·36	0·63	1·46	5·51	1·33	Begooserai ...	Monghyr.	
...	...	...	...	...	...	...	...	4	1·6	0·92	0 65	0·40	3·22	1·15	Monghyr.		
...	...	...	...	...	...	...	...	4	1·3	1·04	0·62	0 50	3·52	1·43	Jamui.		
...	...	...	...	...	...	...	...	2	?	0·63	?	0·34	6 08	?	*Gogri.*		
...	...	...	...	...	...	...	...	2	?	1·10	?	0·60	2·55	?	*Sheikpura.*		
...	...	...	...	...	...	...	...	4	1·7	1·70	0·67	1·09	3·73	1·21	Bhagulpore ...	South Bhagulpore.	
...	...	...	...	...	...	...	...	3	1·3	0·79	0·51	0·40	4·13	1·25	Banka.		
...	...	...	...	...	...	...	...	2	?	1·14	?	0·89	3·46	?	*Kolgong.*		
...	...	...	...	...	...	...	...	3	0·9	0·82	0·48	0·50	3·16	0·79	Rajmehal ...	Sonthal Pergunnahs.	
...	...	...	...	...	...	...	...	4	1·3	0 88	0·56	0·50	4·53	1·11	Godah.		
...	...	...	...	...	...	...	...	3	1·2	0·78	0·67	0 45	3·60	1·20	Pakour.		
...	...	...	...	...	...	...	...	3	2·1	1·14	0·70	0 76	3·16	1·38	Nya Doomka.		
...	...	...	...	...	...	...	...	4	1·6	0·45	0·62	0·19	1·04	1·10	Deoghur.		
...	...	...	...	...	...	...	...	3	1 1	0 51	0·50	0·21	1·53	0·98	Jamtara.		
...	...	...	...	...	...	...	...	3	?	2·45	?	1·05	3·87	?	*Mohagama.*		
...	...	...	...	...	...	...	...	2	?	0·68	?	0·43	1·52	?	*Nunihat.*		
...	...	...	...	...	...	...	...	4	1 9	1·26	0·72	0·58	2·71	1·17	Pachamba (*Giridi*) ...	Hazaribagh ...	CHUTIA NAGPUR.
...	...	...	...	...	...	...	0·02	5	2·5	0·92	0·75	0·59	1·36	1·30	Hazaribagh.		
...	...	...	...	...	...	...	...	3	1·1	0·77	0 52	0·52	1·54	1·03	Semtagurah.		
...	...	...	...	...	...	...	...	1	1 2	0·29	0·58	0·29	1·50	1·41	Mahudi Hills.		
...	...	...	...	...	...	...	...	4	1·0	1·55	0·41	0·85	2·75	0·96	Jhoomrah Hills.		
...	...	...	...	...	...	...	...	3	?	1·02	?	0·45	1·60	?	*Barhi.*		
...	...	...	...	...	...	...	0 05	4	?	3·81	?	1·85	4·11	?	*Chatra.*		
...	...	...	...	...	...	...	...	3	?	0·65	?	0·30	2·65	?	*Karagdeha.*		
									?		?			?	*Ramghar.*		
...	...	...	...	...	...	...	...	3	1·6	1·79	0·57	0·94	2·17	1·55	Lohardugga ...	Lohardugga.	
...	...	...	...	...	...	...	...	2	2 7	0·75	1·01	0·65	0·82	1·78	Ranchi.		
...	...	...	...	...	...	...	...	2	1 7	0·23	0·48	0·13	1·00	1·28	Palamow.		
...	...	...	...	...	...	...	...	2	?	0 70	?	0·50		?	*Sills.*		
									?		?			?	*Balumat.*		
...	...	...	...	...	...	...	...	1	?	0·18	?	0·18	1·27	?	*Hosseinabad.*		
									?		?			?	*Garwah.*		
...	...	...	...	...	...	...	...	1	2·2	0·33	0·82	0·33	0·54	1·53	Chyebassa ...	Singbhoom.	
...	...	...	...	...	...	...	...	1	?	0 72	?	0·72	0·72	?	*Chakradharpore.*		
...	...	...	...	...	...	...	...	1	?	0·55	?	0·55	0·80	?	*Ghatsila.*		
									?		?			?	*Baharagura.*		
...	...	...	...	...	...	...	...	2	2·5	0·57	0·92	0·42	1·55	1·36	Purulia ...	Manbhoom.	
...	...	...	...	...	...	...	...	4	2 0	0·58	0·86	0 35	1·35	1·39	Gobindpore.		
...	...	...	...	...	...	...	...	3	?	2·10	?	1·25	2·03	?	*Raghunathpore.*		
...	...	...	...	...	...	...	...	2	?	0·65	?	0·50	0·65	?	*Barrabhoom.*		
															Jhalda.		
															Chas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF FEBRUARY 1889.

THE normal meteorological conditions obtaining in Bengal during February are to a considerable extent similar to those of January; but during February, and particularly towards its close, the transition period between the cold and hot season commences to make itself felt. One of the most important features of February is undoubtedly the rather rapid increase of temperature which commences in this month and which continues during the following two or three months. This increase is due to the rapidly increasing elevation of the sun, and this heating effect is much more pronounced over the land area than over the sea, so that the dry northerly winds at the southern stations commence to be replaced by moist southerly winds blowing from the sea. The normal conditions in February are therefore comparatively simple. Winds continue generally northerly and north-westerly, except at the southern stations. The sky is clear, and unless conditions are changed by the occurrence of storms, no rain falls. Pressure remains high, while temperature steadily rises, though the night temperatures usually remain fairly low. Humidity also continues low over the greater part of the province except at the southern stations, where the southerly winds set in when rapid and large changes in humidity occur. These normal conditions are, however, liable to be disturbed by the formation or advance of barometric depressions or storms over Northern and Central India which drift eastwards and soutwards, giving heavily-clouded skies, a moist atmosphere and rain to Bengal and Behar, the rainfall during such storms being generally fairly well distributed. Occasionally also by the interaction of the moist sea winds with the dry land breezes, local storms, called nor'-westers, are produced which give rainfall, which is only local and very irregularly distributed. Such storms are, however, generally confined to the close of the month, and when they do occur, they are sometimes rather violent and attended with more or less severe hailstorms.

The whole of the rainfall in February is therefore brought about by these abnormal conditions, and it is generally small in amount and somewhat irregularly distributed, though usually larger than in January. The normal fall averages from about an inch in East and South-West Bengal and Orissa, and rather more than half an inch in North Bengal and Chutia Nagpur, to about four-tenths of an inch in Behar.

Meteorology of the month.—The important features of the meteorology of February 1889 in Bengal have been—

1. Pressure has been everywhere in excess, varying at the different stations from ·01 inch to ·06 inch, and giving a mean excess above the normal of over ·03 inch. The largest excess was in South-East Bengal.

2. Temperature has varied largely during the month, and the mean is about 1° in excess in all districts.

3. Humidity has been high, but cloud proportion has been below the average everywhere except in Behar, where the weather was most unsettled during the passage of two depressions.

4. Two important depressions passed over Bengal during the second and third weeks of February, and towards the end of the month weather became unsettled in consequence of a depression which existed in Sind and Rajputana, but which did not pass over Bengal.

5. Considerable quantities of rain fell generally over the province about the 12th and again between the 17th and 20th. Behar, where the heaviest falls occurred during these two periods of unsettled weather, also received slight showers on the 25th.

A barometric depression which was passing rapidly over Bengal at the end of January continued to affect the weather in East Bengal during the first day or two of February. Decidedly cool weather then set in over the whole province, and a steady northerly and north-westerly current continued till the 7th, when a slight depression over Bengal caused southerly winds in the southern districts of the province. Otherwise the weather was not altered by this depression. It quickly filled up, and weather again became normal till the arrival of a low-pressure area, which drifted eastwards from Central India about the 11th. Rain fell in Behar on the 11th, and became general over the province on the 12th, usually accompanying local thunderstorms. The depression moved rapidly over Bengal, and on the 12th it was over East Bengal, while on the following day it had entirely disappeared. Temperature during those days was very high, and the mean for the whole province was about 4½° in excess of the normal. A rapid fall followed, and weather became of the usual north-east monsoon character till the second important depression of the month caused a series of disturbances, beginning in Behar on the 17th and continuing for three or four days in almost all districts, and until the 21st in East Bengal. From the 18th till the 20th thunderstorms were frequent. The depression was, however, becoming more shallow and diffused as it approached Bengal, hence, though it extended over the whole province, the total fall of pressure was nowhere large. Though it began a little earlier in Behar, conditions in the different districts were almost identical during the three days 18th to 20th. After that the weather became fine, though winds were light and irregular in the southern districts, tending to southerly with decidedly rising temperature till the end of the month. The only exception to the continued fine weather during the last week in the month was in North Bengal and Behar, where the weather was affected by the depression in Northern India, causing a few showers on the 25th instant.

Pressure.—The mean pressure for the month has been everywhere in excess, the amount at the different stations varying from ·01 inch to ·06 inch. The pressure was in largest excess in the early part of the month, while during the latter half it was nearly normal, though affected by irregular oscillations. During the first week the excess was everywhere nearly ·05 inch, and in the following week at several places it amounted to nearly inch, while it was everywhere greater than ·05 inch. The mean for the second week therefore was high, though a depression was over the province during two days of the week. The fall which took place between the 7th and 20th reduced the excess and at the end of the third week pressure was very nearly normal, and remained so till the end of the month though with an upward tendency. The important pressure changes were the falls which gave the three low-pressure areas about the 8th, 12th and 20th. The two first lasted for about two days, and the last for five days; otherwise the pressure has generally been increasing during the month.

In Assam the mean pressure for the month has been in excess of the normal by 0·03 inch

Temperature.—Rapid changes of temperature have been frequent, especially in the early part of the month. There was a rapid fall at the beginning which caused a considerable defect over the whole province. Temperature generally increased during the second week, but on the 13th there was a very rapid fall amounting in some cases to 7°. The changes during the third week were very similar to those of the second, generally rising, with one rapid fall about the 20th. During the fourth week there was a steady rise. There was, therefore, a general defect at the beginning of the month, amounting to more than two degrees, but during the rest of the month the average temperature was in excess. The mean for the whole month was about 1° in excess in Orissa, North Bengal, Behar, and Assam. In the other districts the excess was considerably less, and only amounted to a tenth of a degree in South-West Bengal. For the whole of the province of Bengal, therefore, the mean temperature has been in excess of the normal by between half and one degree. In Assam the temperature has shown a mean excess of 1·3°.

The following table shows generally the variation of the mean temperature from the normal, week by week, at nine typical stations in the province:—

Stations	Week ending 1st February			Week ending 8th February			Week ending 15th February			Week ending 22nd February		
	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean	Variation of actual mean daily temperature of week from normal mean	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean	Variation of actual mean daily temperature of week from normal mean	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean	Variation of actual mean daily temperature of week from normal mean	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean	Variation of actual mean daily temperature of week from normal mean
Cuttack	+3·4	+6·0	+4·7	+0·6	+0·6	+0·6	+3·8	+2·8	[illegible]	+0·1	+0·8	+1·4
Calcutta	+1·9	+3·6	+2·7	−4·3	−2·7	−3·5	+0·7	0	+0·1	[illegible]	−1·2	[illegible]
Dacca	+2·1	+2·1	+2·0	−3·7	−2·8	−3·2	+0·1	+1·7	+0·9	−0·6	+1·7	[illegible]
Burdwan	+3·[illegible]	+3·6	+3·4	−2·8	−5·5	−4·1	+2·8	+0·9	+1·8	−1·8	+2·0	+0·1
Patna	−3·[illegible]	+3·7	+0·3	−5·2	−0·5	−2·9	+1·[illegible]	+4·[illegible]	+3·0	−0·2	[illegible]	+2·1
Gya	+0·4	+4·0	+2·2	−4·0	−2·3	−3·1	+0·5	+2·1	+1·3	−3·9	+2·6	−0·7
Purneah	−1·8	+2·8	+0·6	−7·1	+1·4	−2·9	−0·2	+5·7	+2·7	−0·3	+4·9	[illegible]
Hazaribagh	+2·7	+4·4	+3·6	−2·7	−2·7	−2·7	+0·9	+1·4	+1·2	−1·7	+1·0	−0·3
Darjeeling	+2·5	+2·3	+2·4	+0·8	+1·7	+1·2	+2·6	+5·2	+3·9	+0·4	+1·2	+0·8

Rainfall.—Rain fell, in connection with two important depressions during the month, in considerable quantity on the 11th and 12th, and again from the 17th to 20th. On the third occasion, about the 25th, a few unimportant showers fell in Behar and North Bengal. The quantity which has fallen and the number of rainy days have both been above the average in all districts except East Bengal. In Behar the total fall has been about 1·2 inches, very nearly three times the normal fall for February. South-West Bengal and South Behar have each received 1·28 inches. Orissa and North Behar 1·1 inch, and the other districts nearly 1 inch. The falls in South-West Bengal, Chutia Nagpur and Orissa have been distinctly, though not largely, in excess of the normal, though in North Bengal the fall has been nearly double the normal amount; and, as stated previously, the fall in East Bengal has been slightly in defect of the normal. Comparing the actual falls with the normal, and expressing them as a percentage of that amount, South Behar has received 291 per cent., North Behar 260 per cent., North Bengal 170 per cent., South-West Bengal and Chutia Nagpur 122 per cent., Orissa 120 per cent., and East Bengal 81 per cent.; or considering that each of these districts has an equal value in the calculation, the rainfall in the whole province in February may be said to have equalled 167 per cent. of the normal.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of February 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	97·4	54·0	84·5	65·0	75·0	+1·4	1·09	0·91	+0·18	1·3	2·0	—0·7	51·63	54·37
South-West Bengal	92·2	43·2	81·8	59·0	70·5	+0·1	1·28	1·05	+0·23	2·7	2·1	+0·6	56·62	52·99
East Bengal	90·6	46·0	80·1	57·2	68·7	+0·6	0·83	1·03	—0·20	1·9	2·2	—0·3	71·86	75·31
North Bengal	88·3	41·0	77·1	54·5	66·1	+1·7	0·97	0·57	+0·40	2·5	1·6	+0·9	56·54	71·00
North Behar	84·2	47·1	70·5?	56·0	63·3?	—1·2?	1·12	0·43	+0·69	3·7	1·3	+2·4	45·61	49·22
South Behar	88·3	43·9	77·5	55·9	66·7	+1·1	1·28	0·44	+0·84	3·7	1·4	+2·3	51·37	44·30
Chutia Nagpur	85·4*	44·9*	77·6*	54·4*	66·0*	+0·3*	0·82	0·67	+0·15	2·8	1·9	+0·9	51·79	50·24
Assam	91·0	44·7	77·4	55·9	66·7	+1·3								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL,
The 12th March 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipcre Observatory from 3rd to 9th March 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature: Mean.	Temperature: Maximum.	Temperature: Range.	Temperature: Minimum.	Hygrometry: Mean wet bulb.	Hygrometry: Vapour tension.	Hygrometry: Dew point.	Hygrometry: Humidity.	Wind: Prevailing direction.	Wind: Miles recorded.	Rain.	Weather.
1889.		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
March	3rd	143·3	9 5	30·037	77·8	86·5	17·3	69·2	71·7	0·697	68 4	74	SW by W and variable	57	Nil	Partially cloudy
,,	4th	142 2	10 0	·071	77·5	86·9	18·5	68·4	69·8	·629	65 5	69	WNW and calm ...	36	,,	Chiefly clear, ≡, ⌓.
,,	5th	144·6	9 8	·080	74·2	86 0	23·2	62·8	64 5	·479	57·8	61	NNW and NW by W	46	,,	Chiefly clear, ⌓.
,,	6th	143 7	10 5	·033	73·9	86·5	25 7	60 8	63·3	·412	55·5	57	NW by W and WNW.	59	,,	Clear, ⌓.
,,	7th	144 6	10·4	29·987	75 2	88·6	27 3	61·3	65·7	·509	59·4	62	WSW and W	89	,,	Chiefly clear, ≡, ⌓.
,,	8th	146·7	6·7	·972	76 7	89 8	23 5	66·3	68·1	·573	62 8	66	WSW and WNW	53	,,	Chiefly cloudy, ⌓, ≡.
,,	9th	154 5	4 9	·965	78 2	90·6	24 8	65 8	67 6	·536	60·9	56	WSW and calm ...	51	,,	Chiefly cloudy, ⌓.

	Inches.
The mean pressure of the seven days	30·021
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·847
	Hours.
The total number of hours of bright sunshine	61·8
The maximum possible number of hours of sunshine	82·3
	°
The mean temperature of the seven days	76·2
The average temperature of the corresponding period for 24 years, S. G.'s Office	78·0
The extreme variation of temperature	29 8
The maximum temperature	90·6
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot	Not measureable.
	%
The mean relative humidity	64
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	69
	Inches.
The total fall of rain from 3rd to 9th March 1889	Nil.
The average fall of the corresponding period for 24 years, S. G.'s Office ...	9·46
The total fall from 1st January to 9th March 1889	2 90
The average fall of the corresponding period for 24 years, S. G.'s Office ...	2·18

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h. 10h. 16h. and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, ≡ *fog*.

A. Pedler,

For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 12th March 1889.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of March 1889.

Meteorological division.	District.	Station.	RAINFALL. Saturday, 2nd March 1889.	Sunday, 3rd March.	Monday, 4th March.	Tuesday, 5th March.	Wednesday, 6th March.	Thursday, 7th March.	Friday, 8th March 1889.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'25	41'24	52'38
		Khurdah ...	...	...	0 07	...	...	...	...	1	0'07	0'07	0'07	44'55	57'20
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'17	37'00	51'67
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'41	56'28	66'01
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Pipli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'28	58'64	47'04
		Banki ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'25	45'03	51'67
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'42	53'01	57 47
		Kendrapara .	...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	40'59	54'29
		Jajpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 33	62'30	55 60
		Dharmsala ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57'48	?
		Salipore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Balasore ..	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'23	52 85	58'40
		Bhuddruck ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 20	49 39	53'21
		Soroh ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 26	51'22	52'14
		Balasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0'26	57'70	59'38
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0'21	56'01	54'07
		Baripodah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 10	56'06	54 58
SOUTH-WEST BENGAL.	Midnapore ..	Contai ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0 91	52 48	62'78
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0 27	53 60	68 53
		Tumlook ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'87	67'20	53'29
		Midnapore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'65	70'22	50 43
		Ghattal ...	...	0 03	...	...	...	...	...	1	0 03	0'03	0 11	58'39	55 55
		Kukrahaty ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	67'51	?
		Heria .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53'81	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56'03	?
		Gaibeta ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65'89	?
	24-Pergunnahs	Diamond Harbour .	...	...	...	...	...	...	...	Nil	Nil	Nil	0 58	58'97	60 79
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57 36	?
		Alipore Jail .	0'27		...	...	...	...	...	1	0'27	0'27	0 74	65 09	57'78
		Barrackpore..	0 29	...	...	...	...	...	...	1	0'29	0'29	0 67	63 47	50'15
		Dum-Dum ..	0 97	...	...	...	...	...	...	1	0 97	0'97	0 69	67'53	53 53
		Baraset .	0 36	...	...	...	...	...	...	1	0'36	0'36	0'58	67 84	51 12
		Busoorhat ...	0 18	...	...	...	...	...	...	1	0'18	0 18	0'58	53 22	56'06
	Howrah ..	Howrah .	0'52	0'02	...	...	...	...	...	2	0 54	0'54	0 60	68 80	53'85
		Mohesrekha (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	62'73	53'59
	Hooghly .	Serampore ...	0 27	0'02	...	...	...	...	...	2	0'29	0'29	0'29	68'89	51'62
		Hooghly ..	0 20		...	...	...	...	...	1	0 20	0 20	0 39	68 11	49 74
		Jehanabad ..	0 41	0'03	...	...	...	...	...	2	0'47	0'47	0 25	63 35	56'56
	Burdwan ..	Culna	0 31	...	...	...	...	...	...	1	0'31	0 31	0'37	61 08	45'63
		Burdwan ...	0 16		...	...	...	...	...	1	0 16	0'16	0 56	47 37	40 22
		Cutwa ..		0'43	...	...	...	...	...	1	0'43	0 43	0 43	61'71	49 34
		Raneegunge	0 48		...	...	...	...	...	1	0'48	0 48	0 25	59'32	49 92
		Mankur ..		0 19	...	...	...	...	...	1	0 19	0'19	?	44 80	?
	Bankoora ..	Bankoora ..	0'47	0 10	...	...	...	...	...	2	0 57	0'57	0 56	50 06	52 74
		Bishenpore ...	1 60	0 08	...	...	...	...	...	2	1'68	1 68	0 10	57 33	52'35
		Maharra ..	0 24	...	...	...	...	...	...	1	0 24	0 24	0 04	51 95	52 50
		Khatra ..		...	...	...	...	...	...	Nil	Nil	Nil	0'14	56 09	54 84
		Indas ..	0'27		...	...	...	...	...	1	0 27	0'27	?	42 21	?
		Kotalpore ..	0'62	...	...	...	...	...	...	1	0 62	0'62	?	50 18	?
		Anda	0 40	0'10	...	...	...	...	...	2	0 50	0 50	?	39 51	?
		Gangajalghati	0 23		...	...	...	...	...	1	0 23	0 23	?	58 26	?
		Raipore .		0 45	...	...	...	...	...	1	0 45	0 45	?	50 35	?
		Sonamukhi ..	1 05	0 03	...	...	...	...	...	2	1'08	1 08	?	47 88	?
	Beerbhoom	Bh. Soory ..	0'52	0'01	...	...	...	...	...	2	0'53	0'53	0'21	56'07	54'82
		Hetampore .	0 14	...	...	...	...	...	...	1	0'14	0'41	0'06	49 82	55 30
		Rampore Haut	1 59		...	...	...	...	...	1	1'59	1 59	0 20	73'47	52 47
		Bolpore .	0'36	0 13	...	...	...	...	...	2	0'49	0 49	?	64 22	?
		Murarai											?		?
	Nuddea	Ranaghat .	0 42	0'02	...	...	...	...	...	2	0'44	0'44	0'31	65'11	48 26
		Kishnaghur ...	0 43	...	...	...	...	...	...	1	0 43	0'43	0'34	70 36	47 12
		Chooadanga	0'05	...	...	...	...	...	...	1	0'05	0 05	0'44	54'02	52'57
		Meherpore ...	2 21		...	...	...	...	...	1	2'21	2'21	0'58	53'13	49'11
		Kooshtea .	...	...	...	...	...	...	...	Nil	Nil	Nil	0'82	37'56	55 90
	Khoolna	Satkhira ..	0 24	...	...	...	...	...	...	1	0 24	0'24	0'83	40'27	56'81
		Bagirhat ...	0'25		...	...	...	...	...	1	0'25	0'25	0'38	51 60	63 21
		Khoolna ...	0 37		...	...	...	...	...	1	0'37	0'37	0'71	49'57	56 74
	Jessore	Narail ..	0 52	0'04		...	...	...	...	2	0'56	0'56	0'40	32'28	47'70
		Jessore ...	0 70	...	0 03	...	...	...	...	2	0'73	0'73	0 55	58'03	55'96
		Jhenidah ..	0'15	...	...	...	...	...	...	1	0'15	0 15	0'97	37'09	55'45
		Magoorah ...	0'11	...	...	...	...	...	...	1	0'11	0'11	0 42	44'04	49'81
		Bongong ...	0'45	...	...	...	...	...	...	1	0'45	0 45	0 49	50'80	53'86
	Moorshedabad	Kandi ...	0'84	...		...	...	...	...	1	0 84	0'84	0'13	53 40	61'10
		Berhampore .	0 27	...	...		...	...	...	1	0 27	0'27	0 30	43 60	52'61
		Lalbagh ...	0'19		...	...	...	...	...	1	0'19	0'19	0'15	49 11	51'72
		Azimgunge ...											0 23	?	52'14
		Jungipore ...	0'06	...	...	...	...	...	...	1	0 06	0 06	0'18	49 51	49 99
		Lalgola ...	0 06			...	...	...	...	1	0'06	0 06	0 24	54'29	52 10
		Jiagunge ...	0 14	...	...	...	...	...	...	1	0'14	0'14	?	49 40	?
		Akhriganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50'08	?
		Pathabari ...											?		?
EAST BENGAL	Chittagong	Cox's Bazar .	0 10		...	...	...	...		1	0 10	0'10	0 86	147'04	135'13
		Chittagong ...	0 10		...	...	...	...	...	1	0'10	0'10	0'68	106'08	95'60
		Kutubdia ...											?		?
		Satkanya ...	0'36	...	...	...	...	...	...	1	0'36	0'36	?	92'03	?
	Chittagong Hill Tracts.	Rangamati ...	0'12	...	...	...	...	...	...	1	0'12	0'12	0'97	76'51	85'77
		Ruma ...	0'58	...	...	...	...	...	...	1	0'58	0 58	1'06	71'57	80'29
	Backergunge	Patuakhally ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0'43	88'27	89'11
		Perozepore ..											0'61		72'00
		Burrisal ..											0'94		69'70
		Bhola ...	0'43	...	...	...	...	...	...	1	0'43	0'43	1'02	76'46	88'36

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of March 1889—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 2nd March.	Sunday, 3rd March.	Monday, 4th March.	Tuesday, 5th March.	Wednesday, 6th March.	Thursday, 7th March.	Friday, 8th March.	Number of rainy days.	Rainfall of week.				
EAST BENGAL—concld.		*Gournaddi* ..	0·42	...	...	...	...	...	...	1	0·42	0·42	?	81·25	?
		Bauphal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	99·51	?
	Noakholly	Noakholly ..	1·13	...	...	...	...	...	...	1	1·13	1·13	1·31	106·67	110·02
		Fenny .	0·75	...	...	...	...	...	...	1	0·75	0·75	1·43	106·73	109·13
		Harishpore ...	0·40	...	...	...	...	...	...	1	0·40	0·40	?	131·06	?
		Ramganj ..	0·37	...	...	...	...	...	...	1	0·37	0·37	?	90·31	?
	Furreedpore	Madaripore ..	0·16	...	...	...	...	...	...	1	0·16	0·16	1·12	46·93	57·95
		Furreedpore...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·65	53·33	58·30
		Goalundo ..	0·08	...	...	...	...	...	...	1	0·08	0·08	0·42	45·25	54·55
	Dacca ...	Munshigunge	0·04	...	...	...	...	...	...	1	0·04	0·04	1·19	61·72	72·66
		Dacca ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·53	53·69	60·04
		Naraingunge	0·03	...	...	...	...	...	...	1	0·03	0·03	0·19	63·96	60·98
		Manickgunge		...	...	...	...	...	...	Nil	Nil	Nil	0·26	47·63	51·43
		Joydebpore ..	0·01	...	...	...	...	...	...	1	0·01	0·01	?	59·50	?
	Hill Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·76	54·42	63·44
	Tipperah ...	Comilla ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·95	70·17	77·84
		Chandpore ..	0·30	...	...	...	...	...	...	1	0·30	0·30	0·44	58·57	79·26
		Brahmunberia	...	...	...	...	...	...	...	Nil	Nil	Nil	0·80	70·13	63·38
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·81	?
		Nasirnagar ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·99	?
		Daudkandi ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·18	?
		Kasba ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·65	?
		Laksham ..											?		?
	Mymensingh..	Kishoregunge	...	...	...	...	...		...	Nil	Nil	Nil	0·56	83·53	71·50
		Atia (*Tangail*)											0·64		57·24
		Mymensingh	...	...	...		...	...	...	Nil	Nil	Nil	0·50	70·02	75·37
		Jamalpore ..	...	...	...	...		...	...	Nil	Nil	Nil	0·48	66·98	66·76
		Netrokona ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·53	77·02	72·81
		Subornakhali	0·03	...	...	...	...	...	...	1	0·03	0·03	?	62·17	?
		Durgapore .											?		?
		Sherepore town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Dewanganj	...	...	...	...	...	...		Nil	Nil	Nil	?		?
NORTH BENGAL.	Pubna	Pubna ..	0·04	...	...	...	...	...	...	1	0·04	0·04	0·37	40·87	55·29
		Seraigunge ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	44·09	54·32
	Bogra	Sherpore ..	0·03	...	...	...	...	...	...	1	0·03	0·03	0·31	43·71	59·02
		Nowkhilla ...	...		...	...	...	...	...	Nil	Nil	Nil	0·35	51·82	55·83
		Bogra ...											0·30		61·71
		Panchbibi ..											0·19		56·48
	Rajshahye	Beauleah .	0·06	...		...	...	...	...	1	0·06	0·06	0·23	33·92	53·92
		Nattore	...	...		...		...	...	Nil	Nil	Nil	0·22	61·98	58·04
		Naogaon											-		?
		Lalpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·03	?
		Manda ..											?		?
	Maldah ..	Maldah		...	...	...	...	...	...	Nil	Nil	Nil	0·21	51·85	52·45
		Chanchal .	0·03	...		...		...	...	1	0·03	0·03	0·05	35·70	57·39
		Gajol .			...	...		...	...	Nil	Nil	Nil	?	40·55	?
		Sibganj .	0·05	...	...	...	...	...	...	1	0·05	0·05	?	48·70	?
	Dinagepore ..	Mohadebpore		...	...	...	...	...	...	Nil	Nil	0·04	0·09	41·24	59·09
		Churamon ..		...	...		...			Nil	Nil	Nil	0·11	50·79	55·64
		Raigunge ..				...				Nil	Nil	Nil	0·07	53·54	54·88
		Dinagepore	...				...			Nil	Nil	Nil	0·31	59·79	61·81
		Baloorghat	...			...	...		...	Nil	Nil	Nil	0·17	42·13	55·51
		Thakoorgaon	...	...			...	...	...	Nil	Nil	Nil	?	53·02	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·39	48·55	62·55
		Rungpore ...											0·37		75·39
		Kurigram ...	...	...	...	...	...		.	Nil	Nil	Nil	0·15	76·51	74·01
		Bagdogra (*Nilphamari*)	...	...		...				Nil	Nil	Nil	0·19	56·46	55·91
		Ulipore ..	...	...	...	...			...	Nil	Nil	Nil	?	56·68	?
	Julpigoree ...	Julpigoree ..	.	.	.	...		...	.	Nil	Nil	Nil	0·33	107·10	118·31
		Alipore Duar											?		?
		Fallacotta ..		...	.					Nil	Nil	Nil	?	92·57	?
		Debiganj ..	.	...		...		...		Nil	Nil	Nil	?	64·28	?
		Bhogotpore (*Nagrakatta*).	...		...		...		...	Nil	Nil	Nil	?	?	?
	Cooch Behar.	Dinhatta .	.	...	.				...	Nil	Nil	Nil	0·06	93·05	93·56
		Cooch Behar..	...	...			...			Nil	Nil	Nil	0·20	91·47	119·01
		Mekligunge..	...	...	...			.	...	Nil	Nil	Nil	0·09	78·95	108·58
		Matabhanga .								Nil	Nil	Nil	0·14	70·21	117·27
	Darjeeling Hill	Buxa .	.			...				Nil	Nil	Nil	0·33	160·29	194·00
		Silliguri ..		...			.		...	Nil	Nil	Nil	0·04	84·63	108·89
		Darjeeling ..	...	.			...	...	.	Nil	Nil	Nil	0·21	92·67	109·74
		Kalimpong ..											0·08		84·26
NORTH BEHAR	Purneah ..	Kissengunge..	...	.	...	...	...	...	...	Nil	Nil	Nil	0·17	49·56	71·12
		Arrareah ..											0·23		64·54
		Purneah ..	0·01		...	...	...		...	1	0·01	0·01	0·11	46·85	62·05
		Gondwara ...	...	...	.	...	...		.	Nil	Nil	Nil	?	?	?
		Balarampore	...	.		.			.	Nil	Nil	Nil	?	?	?
		Matiari ..											?	?	?
		Kaliaganj ..	...	...			.		.	Nil	Nil	Nil	?	59·67	?
	North Bhagulpore.	Maddapore ..	...			...			...	Nil	Nil	Nil	0·14	61·66	50·39
		Soopool ...	...				...		.	Nil	Nil	Nil	0·16	45·53	46·58
		Protabganj ..	...		.			...	...	Nil	Nil	Nil	?	41·14	?
	Durbhunga	Tajpore ..	0·06				.	...	.	1	0·06	0·07	0·07	46·10	48·87
		Durbhunga ..	0·03		...	...	.	...		1	0·03	0·10	0·14	39·21	46·54
		Madhubani ..	...				...	...	.	Nil	Nil	Nil	0·07	44·32	45·67
		Bahera ...	0·05	.	.		...	...	..	1	0·05	0·05	?	55·51	?
		Roshera ..	...	.	.	...	.	...	...	Nil	Nil	Nil	?	47·09	?
	Mozufferpore	Sitamarhi .	...	.	.	.	.	...	...	Nil	Nil	0·03	0·36	36·52	43·84
		Mozufferpore	0·07	.	...		...	...	.	1	0·07	0·15	0·15	46·10	46·31
		Hajipore ...	0·10		.		.	...	...	1	0·10	0·10	0·11	49·42	42·61
		Paru ..											?		?
		Mahua ..	0·10	...			.	...	...	1	0·10	0·10	?	40·25	?
		Sruhar ...											?		?
		Pupri ..											?		?
	Chumparun...	Motihari ..	...	...	.	.		...	..	Nil	Nil	0·04	0·22	40·83	45·34
		Bettiah ..	...		.		.	...	...	Nil	Nil	0·13	0·21	49·54	49·56
		Bagaha ..											?		
		Burhurwa ..	...	...	.	...	...	...	...	Nil	Nil	0·40	?	43·17	

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 8th of March 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 2nd March 1889.	Sunday, 3rd March.	Monday, 4th March.	Tuesday, 5th March.	Wednesday, 6th March.	Thursday, 7th March.	Friday, 8th March.	Number of rainy days.	Rainfall of week.				
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge ...	...	...	...	...	...	...	...	Nil	Nil	0'30	0'01	41'34	44'51
		Sewan ...	0'24	...	...	...	...	...	...	1	0'24	0 25	0'08	44'44	44'55
		Chuprah ..	...	...	...	...	...	...	...	Nil	Nil	0'34	0'16	39'25	41'31
SOUTH BEHAR	Shahabad	Buxar ..	0'04	...	...	...	...	...	...	1	0 04	0'04	0 09	43'33	39'00
		Dehree ...	1 15	...	...	...	...	...	...	1	1'15	1'15	0'31	46 13	39'58
		Bhuboosh ...	0 60	...	...	...	...	...	...	1	0'60	0 75	0'39	42'22	42'31
		Sasseram ...	1 22	...	...	...	...	...	...	1	1'22	1 22	0'07	44 11	41'23
		Arrah ...	...	...	...	...	...	...	...	Nil	Nil	0'18	0'11	46 34	40'86
		Mohaniah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Gya ..	Aurungabad...	0'10	...	...	...	...	...	...	1	0'19	0 27	0 12	55'14	43'37
		Gya ...	...	...	...	...	...	...	...	Nil	Nil	0'80	0 10	56 01	43'27
		Nowadah ...	0 28	...	...	...	...	...	...	1	0'28	0 35	0 13	51'18	40'69
		Jehanabad ...	0 25	...	...	...	...	...	...	1	0'25	0'25	0'12	49'12	41'25
		Arwal ...	0 23	...	...	...	...	...	...	1	0'43	0 23	?	40 08	?
		Daudnagar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43'15	?
		Sherrghati ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35'25	?
		Rajauli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28'58	?
		Pakri Barawan	0'20	...	...	...	...	...	...	1	0'20	0'20	?	38 91	?
	Patna ...	Patna ...	0'14	...	...	...	...	...	...	1	0'14	0'25	0'08	43'51	42'44
		Dinapore ...	...	...	...	...	...	...	...	Nil	Nil	0'20	0'06	45 11	41'94
		Behar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	58 34	42'64
		Barrh ...	0'20	...	...	...	...	...	...	1	0'20	0'20	0 14	59'61	40'38
		Bickram ...	0 15	...	...	...	...	...	...	1	0'15	0 15	?	40'43	?
		Hilsa ...	0 28	...	...	...	...	...	...	1	0'28	0 28	?	50'16	?
	Monghyr	Begooserai ...	0'15	...	...	...	...	...	...	1	0'15	0'15	0'09	51'73	40'82
		Monghyr ..	0 10	...	...	...	...	...	...	1	0 10	0 10	0 13	56 93	47'16
		Jamui ...	0'17	...	...	...	...	...	...	1	0 17	0 17	0'12	52 50	43 84
		Gogri ...	0 09	...	...	...	...	...	...	1	0 09	0 09	?	64'76	?
		Sheikpura ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60'73	?
	South Bhagulpore	Bhagulpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	56 73	42'79
		Banka ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	44'01	45'43
		Kolgong ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53 84	?
	Sonthal Pergunnahs	Rajmehal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	48'72	52'47
		Godda ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	52'17	45'84
		Pakour .	0 04	...	...	...	...	...	...	1	0 04	0 04	0 12	65'17	55'74
		Nya Doomka	0 19	...	...	...	...	...	...	1	0 19	0'19	0 23	54 62	54'17
		Deoghur ..	0'17	...	...	...	...	...	...	1	0'17	0 17	0 22	54'00	50'98
		Jamtara ..	0 55	...	...	...	...	...	...	1	0 55	0 55	0'27	57'59	45'86
		Mohagama ...	...	...	...	...	...	...	...	Nil	Nil	Nil		?	?
		Nunihat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	20 74	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*). ...	0'38	...	...	...	...	...	...	1	0 38	0 38	0'20	58'51	48'33
		Hazaribagh ...	0 65	...	...	...	...	...	...	1	0 65	0'65	0 19	56 53	48'94
		Semtagurah ..	0 35	...	...	...	...	...	...	1	0'35	0 35	0 51	56 72	46 80
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0 21	55 81	49 22
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0 20	64'90	62 98
		Barhi ...	0'24	...	...	...	...	...	...	1	0'24	0 24	?	51 40	?
		Chatra ..	0 26	...	...	...	...	...	...	1	0'26	0'26	?	58'22	?
		Karagdeha ...	0 12	...	...	...	...	...	...	1	0'12	0 12	?		?
		Ramghur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Lohardugga ..	Lohardugga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0 10	48'64	53'03
		Ranchi ...	...	0 10	...	...	...	...	...	1	0 10	0 10	0'39	53 74	53'64
		Palamow ...	0 28	...	...	...	...	...	...	1	0 28	0 48	0'12	53 53	43'98
		Silli ...	0'10	...	...	...	...	...	...	1	0 10	0'10	?	?	?
		Balumat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Hosseinabad...	0 49	...	...	...	...	...	...	1	0 40	0'81	?	?	?
		Garwah ..	...	...	...	...	...	...	...	Nil	Nil	0'50	?		?
	Singbhoom .	Chyebassa .	...	0'32	...	...	...	...	...	1	0'32	0'32	0 37	41'30	52'91
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55'67	?
		Ghatsilla ...					...	...	...	Nil	Nil	Nil	?	55'19	?
		Baharagura..	...	1 27			...		...	1	1'27		?		?
	Manbhoom ...	Purulia .	0 03	0 16	...	...	...	...	...	2	0'19	0'10	0'37	58'25	50'35
		Gobindpore ...	0 42	0 05	...	...	...	...	...	2	0 47	0 47	0'17	38'00	46 10
		Raghunathpore.	0 40	...	...		...	...	...	1	0 40	0 40	?	55'83	?
		Barrabhoom	...	0 42			...	...	...	1	0'42	0'43	?	51'72	?
		Jhalda ...	...	...	...		...		...	Nil	Nil				
		Chas ...	...	...		...	...	...	...	Nil	Nil				

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 12*th March* 1889

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 8TH MARCH 1889.

AT the close of the previous week weather conditions had become slightly disturbed, particularly in the western districts of the province, by the formation of a shallow area of comparatively low pressure which stretched from Upper Sind into the Central Provinces. On the morning of the 2nd, though pressure was actually very high over the whole of the province, yet pressure was in comparative defect over Chutia Nagpur and the adjacent districts of the Central Provinces and North-West Provinces, thus showing that the depression was moving in an easterly direction over Bengal. This slight disturbance was, however, quite sufficient to give a series of thunderstorms with rain, and on the 2nd rain was reported from almost all stations in South-West Bengal, East Bengal, South Behar and Chutia Nagpur; while a few showers were received in North Behar and North Bengal—Orissa remaining almost rainless On the morning of the 3rd the depression which on the 2nd was passing into Bengal had apparently quite filled up, for pressure had risen generally, and in some cases rather rapidly, but still a few showers were reported on this day, principally in South-West Bengal and Chutia Nagpur. This depression, though comparatively feeble, as judged by the barometric movements and by the strength of the wind at the stations in the plains, was apparently of considerable intensity in the higher elevations of the atmosphere, for at Darjiling from the 2nd to the 3rd a gale of wind was reported to be blowing With the disappearance of the depression pressure became very high over the whole of the province and rather largely above the normal, the excess generally ranging between one and two-tenths of an inch, and this high pressure was maintained up to the 5th. Fine weather succeeded the disturbance, and rainfall quite ceased, while skies commenced to clear rapidly. Temperature was during the existence of the depression rather high and above the normal, but with the disappearance of the disturbed conditions and with the effects of the rainfall, it became decidedly below the normal, and on the 5th the defects in the mean temperature ranged up to about 5°. On the 6th, however, pressure commenced to decrease, and the fall continued almost to the close of the week; while, on the other hand, temperature in Bengal remained fairly low until the 7th, when from the 7th to the 8th with the setting in of southerly winds, temperature commenced to rise rather rapidly At the close of the week, therefore, the weather conditions were again settled, but they were those which usually occur at the transition period between the close of the cold and the commencement of the hot season

Pressure.—Has for the greater part of the week been rather largely above the normal, and even when the small disturbance was passing into the province, pressure remained decidedly high. For the whole week the mean pressure of the province has been 0·124 inch in excess of the normal, and this excess has been very equally distributed; the smallest excess at any of the stations which have been established sufficiently long to give reliable averages being 0·1 inch at Chittagong, while the largest excess is 0·14 inch at Cuttack

Temperature.—The temperature changes during the week have already been alluded to, and the mean temperature during this period of rather large oscillations has not been very far removed from the normal; the mean of the whole province only showing a defect of 0·6°.

The general distribution of temperature for the week and its variation from the normal are shown in the table below, where the mean temperature data for nine typical stations are given:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 8th March 1889.

	Normal mean [illegible] 8th March	Actual mean maximum [illegible] 8th March 1889	Variation of actual mean from the normal	Normal mean [illegible]	Actual mean [illegible] 8th March 1889	Variation of actual mean from the normal	Normal mean daily [illegible] March	Actual mean [illegible] March 1889	Variation of [illegible] the normal
Cuttack	94·4	97·3	+2·9	69·4	72·2	+2·8	81·9	84·8	+2·[illegible]
Calcutta	88·9	8[illegible]·9	−2·0	66·9	64·7	−2·2	77·9	7[illegible]	−2·1
Dacca	87·6	80·6	[illegible]·0	65·0	63·6	−1·4	78·3	76·6	[illegible]
Burdwan	90·5	90·5	0	64·9	63·3	−1·6	[illegible]	76·9	[illegible]
Patna	86·6	85·3	−1·3	58·4	60·1	+1·7	72·5	72·7	[illegible]
Gya	88·6	8[illegible]·4	−3·2	62·0	6[illegible]·9	+0·9	[illegible]	[illegible]	−1·1
Purneah	87·1	84·9	−2·2	56·8	58·1	+1·3	72·0	71·5	−0·[illegible]
Hazaribagh	83·9	82·9	−1·0	59·3	60·2	+0·9	71·6	71·[illegible]	0
Darjeeling	56·1	55·8	−0·3	42·1	41·4	−0·7	[illegible]	48·6	−0·5

Rainfall—As previously stated, has been absent in Orissa, and practically absent in North Bengal and North Behar. In East Bengal the falls have been small, and have only averaged 0·14 inch; in South Behar an average fall of 0·23 inch is reported; and in Chutia Nagpur one of 0·30 inch. The largest falls have occurred in South-West Bengal, where they average 0·38 inch. Except in the case of South-West Bengal, North Behar and Chutia Nagpur, where the falls have been very slightly in excess of the normal, the rainfall has generally been decidedly deficient.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 8th of March 1889 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	100·4	61·6	86·6	69·1	77·9	+1·2	Nil	0·23	—0·23	0·0	0·6	—0·6	Nil	0·25	51·63	54·63
South-West Bengal ...	94·3	56·8	88·8	64·4	76·6	—1·3	0·38	0·36	+0·02	1·0	0·7	+0·3	0·38	0·41	57·00	53·45
East Bengal	93·0	53·5	87·8	62·1	75·0	—0·7	0·14	0·70	—0·56	0·5	1·0	—0·5	0·14	0·75	72·00	76·07
North Bengal	91·2	50·9	86·3	57·4	71·9	—1·6	0·01	0·18	—0·17	0·2	0·5	—0·3	0·01	0·23	56·55	71·24
North Behar	86·7*	52·9*	83·6*	58·8*	71·2*	—0·5*	0·03	0·15	—0·12	0·4	0·5	—0·1	0·19	0·15	45·70	49·37
South Behar	90·8	55·8	85·9	61·2	73·6	—0·9	0·23	0·14	+0·09	0·7	0·4	+0·3	0·30	0·15	51·71	44·45
Chutia Nagpur	88·0†	57·4†	83·8†	60·0†	71·9†	—0·4†	0·30	0·24	+0·06	1·1	0·5	+0·6	0·32	0·26	51·97	50·49

* Chupra not included. † Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 12th March 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 3rd to 9th March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
March ...	3rd ..	30·148	79·0	89·0	20·1	68·9	79·6	72·6	·709	69·0	70	Nil.
" ...	4th ...	·166	79·4	89·0	19·2	69·8	82·6	67·6	·476	57·6	43	"
" ..	5th ...	·178	75·7	88·5	25·6	62·9	81·6	65·6	·418	54·0	39	"
" ...	6th ...	·123	74·5	88·0	27·0	61·0	81·1	65·1	·407	53·2	38	"
" ...	7th ...	·071	76·6	90·2	27·3	62·9	82·1	69·6	·557	62·0	51	"
" ...	8th ...	·051	78·7	90·8	24·3	66·5	80·1	69·9	·596	63·9	58	"
" ...	9th ...	·053	79·0	91·9	25·8	66·1	83·1	73·0	·678	67·7	60	"

The mean 10 A.M. pressure of the seven days	Inches. 30·113
The mean temperature of the seven days	° 77·6
The extreme variation of temperature	30·9
The maximum temperature	91·9
The mean 10 A.M. relative humidity of the seven days	% 51
The total fall of rain from 3rd to 9th March 1889	Inches. Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA ;
The 2th March 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE chief features in the vital statistics of the principal Municipalities in Bengal for the week ending 23rd February 1889, deduced from the table annexed to this memorandum, are as follows :—

1. During the week in question births and deaths were registered in the proportions respectively of 22·4 and 25 8 per 1,000 of population, against 23 and 24·8 per 1,000 respectively during the preceding week ending 16th February, indicating an improvement in the registration of deaths.

2. The following Municipalities returned the highest proportions of births and deaths :—

Births.

	Ratio per mille.
Durbhanga	40·1
Rampore Beauleah	39·4
Utterpara	37·7
Hughli	37·6
Serampore	37·3
Comillah	34·7
Kishnaghur	32·2
Monghyr	31·6

Deaths.

	Ratio per mille.
Suburbs of Calcutta	46·1
Utterpara	37·7
Howrah	36·1
Bali	35·1
Durbhanga	33 0
Kishnaghur	30 3

3. As compared with the results of the preceding week, there was a noticeable increase of mortality from fever and a sensible diminution in the number of deaths from the maladies coming under the head "Other causes." The death-rates from the other diseases, excepting small-pox, exhibited only fractional variations, *vide* subjoined figures :—

	Ratio per *mille* during the weeks ending— 23rd Feb. 1889.	16th Feb. 1889.
Cholera	3·4	3·2
Small-pox	·2	·2
Fever	10·9	8·8
Bowel-complaints	4 1	4·2
Injury	·2	·5
Other causes	6 9	7 9

4. The greatest suffering from Cholera, Fever and "Other causes" occurred in the following Municipalities. The other diseases denominated in the above table exhibited no special local severity :—

Cholera.

	Ratio per mille.
Howrah ...	17·2
Suburbs of Calcutta ...	9·1

Fever.

	Ratio per mille.
Rampore Beauleah ...	26·3
Purneah ...	24·2
Kishnaghur ...	20 8

Other causes.

	Ratio per mille.
Serampore ...	13·7
Midnapore ...	12 4
Suburbs of Calcutta ...	12·4
Bhagulpore ...	10 9
Puri ...	10·5

5. With regard to mortality referable to *Sex*, *Class* and *Age*, the rates of deaths stood as follows :—

According to Sex.

	Ratio per mille.
Males	28·0
Females	23·2
Ratio of male deaths to every 100 female deaths ...	136

According to Class.

	Ratio per mille.
Christians	13·0
Hindus	26·6
Mahomedans ...	24·3
Other classes ...	36·4

According to Age.

	Ratio per mille.
Under 1 year ...	185·2
1 and under 5 years ...	24·6
5 " 10 " ...	5·6
10 " 15 " ...	10 9
15 " 20 " ...	16 7
20 " 30 " ...	21·5
30 " 40 " ...	20·5
40 " 50 " ...	20·8
50 " 60 " ...	32·8
60 years and upwards ...	64 0

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 11*th March* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending [illegible]

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION			BIRTHS							MORTALITY ACCORDING TO—																			
												Disease															Sex				
					Number of—			Ratio per 1,000 of Population per annum				Deaths from—							Ratio per 1,000 of Population per annum								Deaths		Ratio per 1,000 of Population per annum		
DISTRICTS	NAMES OF MUNICIPALITIES	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	13	6	19	19·8	9·2	29·0	216	1		13	1		5	18	1·5		19·8	1·5	...	4·6	27·5	41·2	6	12	17·3	39·0	50
Midnapore	Midnapore	16,927	16,633	33,560	3	4	7	1·6	6·2	10·8	75	1	.	2	4	.	8	15	1·5		3·1	6·2	.	12·4	23·2	13·9	8	7	24·6	21·9	114
Hughli	Hughli and Chinsurah	19,179	19,530	38,718	17	11	28	22·8	14·8	37·6	154	3		10	5		1	19	4·0	..	13·4	6·7	..	1·3	25·5	26·9	11	8	29·8	21·3	137
Serampore ...	Serampore	13,559	12,937	26,496	13	6	19	25·8	11·5	37·3	216	1	.	5	2	.	7	15	2·0	..	9·8	3·9	..	13·7	29·4	31·4	12	3	46·0	12·1	400
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	1		1	2	..	.	4	9·4	.	9·4	18·9	...	..	37·7	9·4	1	3	17·1	63·3	33
Howrah ...	Howrah	53,153	37,660	90,813	26	17	43	14·3	9·7	24·0	152	30	.	15	10	1	7	63	17·2	...	8·6	5·7	·6	4·0	36·1	21·8	41	22	40·1	30·4	186
	Bali	7,836	6,979	14,815	4	2	6	14·0	7·0	21·1	200	1	.	4	3		2	10	3·5	..	14·0	10·5		7·0	35·1	17·5	7	3	46·5	22·4	233
24-Pergunnahs ...	Suburbs of Calcutta .	147,205	104,231	251,436	54	36	90	11·2	7·4	18·6	150	41	1	79	[illegible]		61	[illegible]	9·1	·2	16·3	8·1	..	12·4	46·1	46·3	132	91	46·6	45·4	145
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	10	7	17	18·9	13·2	32·2	142	..	.	11		..	5	16	..	...	20·8	..		9·5	30·3	11·4	8	8	31·4	29·3	100
	Ranaghat	4,028	4,655	8,683			..			..	.		.		2	..	.	2				12·0		...	12·0		1	1	12·9	11·2	100
	Santipore	13,708	15,979	29,687	1	2	3	1·7	3·5	5·2	50		..	4	..			4	.	.	7·0	..	...	...	7·0	24·5	4	..	15·2	.	No female death.
Jessore	Jessore	4,830	3,665	8,495	1		1	6·1	...	6·1	No female birth.		..	3		..	1	4		..	15·4	...	..	6·1	24·5	24·5	2	2	21·5	28·4	100
Rajshahye	Rampore Beauleah ..	10,766	9,025	19,791	4	11	15	10·5	28·9	39·4	36		...	10		.	.	10		..	26·3	...	..	..	26·3	13·1	6	4	29·0	23·0	150
Darjiling	Darjiling*	5,029	2,947	7,976	1	1	2	6·5	6·5	13·0	100	.	...	2	...			2			13·0	..	.		13·0	13·0	2	...	20·7	.	No female death.
Dacca ...	Dacca	42,782	37,379	80,161	23	17	40	14·9	11·0	25·9	135	2	1	12	6	1	15	37	1·3	·6	7·8	3·9	·6	9·7	24·0	24·0	26	11	31·6	15·3	236
	Narainganj	7,605	4,956	12,561	1	1	2	4·1	4·1	8·3	100	1	...	2	1	..	1	5	4·1	..	8·3	4·1	..	4·1	20·7	53·8	4	1	27·4	10·5	400
Chittagong ...	Chittagong	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	..	...	1	1		3	5		..	2·3	2·3	...	7·0	11·7	7·0	2	3	7·8	17·7	66
Tipperah	Comillah	8,158	5,348	13,506	5	4	9	19·3	15·4	34·7	125		...	4			1	5		...	15·4		...	3·9	19·3	34·7	3	2	19·1	19·4	150
Patna	Patna City	78,762	81,475	160,237	31	8	39	10·1	2·6	12·7	387		2	12	1		11	26		·6	3·9	·3	...	3·6	8·4	13·6	9	17	5·9	10·8	52
Gya	Gya	38,290	37,831	76,121	20	11	31	13·7	7·5	21·2	181	2	1	22	2	1	8	36	1·4	·7	15·0	1·4	·7	5·4	24·6	17·8	22	14	29·9	19·2	157
Shahabad	Arrah	20,660	22,505	43,165	10	4	14	11·9	4·8	16·7	250			13		1	1	15		.	15·5		1·2	1·2	17·9	7·2	3	12	7·4	27·7	25
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	8	2	10	9·7	2·4	12·2	400	...	..	2	2	.	4	8			2·4	2·4	...	4·9	9·7	15·8	4	4	9·0	10·6	100
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	23	28	51	18·1	22·0	40·1	82	..		22	12		8	42			17·3	9·4	..	6·3	33·0	14·9	20	22	30·8	35·4	90
Sarun	Chupra	26,044	27,215	53,259	18	12	30	17·6	11·7	29·3	150			4	3		6	13	.	..	3·9	2·9		5·9	12·7	15·6	6	7	12·0	13·4	85
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	22	10	32	19·9	9·1	29·0	120	..	..	9			12	21			8·1		...	10·9	19·0	19·0	13	8	22·8	15·0	162
Monghyr	Monghyr	28,154	29,366	57,520	19	16	35	17·2	14·4	31·6	118		..	5	6	1	6	18		..	4·5	5·4	·9	5·4	16·3	26·2	13	5	24·0	8·9	260
Purneah	Purneah *	8,463	6,553	15,016	1	4	5	3·5	13·8	17·3	25		...	7			1	8		.	24·2	.	...	3·4	27·7	24·2	5	3	30·7	23·8	166
Puri	Puri	13,247	11,537	24,784	7	7	14	14·7	14·7	29·4	100			2	3	1	5	11			1·2	6·3	2·1	10·5	23·1	37·8	7	4	27·5	18·0	175
	Total	702,890	619,691	1,322,581	344	230	574	13·4	9·0	22·4	147	87	5	270	105	6	176	655	3·4	·2	10·9	4·1	·2	6·9	25·8	24·8	378	277	28·0	23·2	136

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population [illegible] except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 8TH MARCH 1889.

AT the close of the previous week weather conditions had become slightly disturbed, particularly in the western districts of the province, by the formation of a shallow area of comparatively low pressure which stretched from Upper Sind into the Central Provinces. On the morning of the 2nd, though pressure was actually very high over the whole of the province, yet pressure was in comparative defect over Chutia Nagpur and the adjacent districts of the Central Provinces and North-West Provinces, thus showing that the despression was moving in an easterly direction over Bengal. This slight disturbance was, however, quite sufficient to give a series of thunderstorms with rain, and on the 2nd rain was reported from almost all stations in South-West Bengal, East Bengal, South Behar and Chutia Nagpur; while a few showers were received in North Behar and North Bengal—Orissa remaining almost rainless On the morning of the 3rd the depression which on the 2nd was passing into Bengal had apparently quite filled up, for pressure had risen generally, and in some cases rather rapidly, but still a few showers were reported on this day, principally in South-West Bengal and Chutia Nagpur. This depression, though comparatively feeble, as judged by the barometric movements and by the strength of the wind at the stations in the plains, was apparently of considerable intensity in the higher elevations of the atmosphere, for at Darjiling from the 2nd to the 3rd a gale of wind was reported to be blowing With the disappearance of the depression pressure became very high over the whole of the province and rather largely above the normal, the excess generally ranging between one and two-tenths of an inch, and this high pressure was maintained up to the 5th. Fine weather succeeded the disturbance, and rainfall quite ceased, while skies commenced to clear rapidly. Temperature was during the existence of the depression rather high and above the normal, but with the disappearance of the disturbed conditions and with the effects of the rainfall, it became decidedly below the normal, and on the 5th the defects in the mean temperature ranged up to about 5°. On the 6th, however, pressure commenced to decrease, and the fall continued almost to the close of the week; while, on the other hand, temperature in Bengal remained fairly low until the 7th, when from the 7th to the 8th with the setting in of southerly winds, temperature commenced to rise rather rapidly At the close of the week, therefore, the weather conditions were again settled, but they were those which usually occur at the transition period between the close of the cold and the commencement of the hot season.

Pressure—Has for the greater part of the week been rather largely above the normal, and even when the small disturbance was passing into the province, pressure remained decidedly high. For the whole week the mean pressure of the province has been 0·124 inch in excess of the normal, and this excess has been very equally distributed; the smallest excess at any of the stations which have been established sufficiently long to given reliable averages being 0 1 inch at Chittagong, while the largest exce s is 0 14 inch at Cuttack.

Temperature.—The temperature changes during the week have already been alluded to, and the mean temperature during this period of rather large oscillations has not been very far removed from the normal; the mean of the whole province only showing a defect of 0·6°.

The general distribution of temperature for the week and its variation from the normal are shown in the table below, where the mean temperature data for nine typical stations are given:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 8th March 1889.

	Normal mean maximum temperature for the week ending 8th March.	Actual mean maximum temperature for the week ending 8th March 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 8th March.	Actual mean minimum temperature for the week ending 8th March 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 8th March.	Actual mean daily temperature for the week ending 8th March 1889.	Variation of actual mean from the normal.
Cuttack	94·4	97·3	+2·9	69·4	72·2	+2·8	81·9	84·8	+2·9
Calcutta	88·9	85·9	−2·0	66·9	64·7	−2·2	77·9	75·8	−2·1
Dacca	87·6	89·6	+2·0	65·0	63·6	−1·4	76·3	76·6	+0·3
Burdwan	90·5	90·5	0	64·9	63·3	−1·0	77·7	76·9	−0·8
Patna	86·6	85·3	−1·3	58·4	60·1	+1·7	72·5	72·7	+0·2
Gya	88·6	85·4	−3·2	62·0	62·0	+0·0	75·3	74·2	−1·1
Purneah	87·1	84·9	−2·2	56·8	58·1	+1·3	72·0	71·5	−0·5
Hazaribagh	83·9	82·9	−1·0	59·3	60·2	+0·9	71·6	71·6	0
Darjeeling	56·1	55·8	−0·3	42·1	41·4	−0·7	49·1	48·6	−0·5

Rainfall—As previously stated, has been absent in Orissa, and practically absent in North Bengal and North Behar. In East Bengal the falls have been small, and have only averaged 0·14 inch; in South Behar an average fall of 0·23 inch is reported; and in Chutia Nagpur one of 0·30 inch. The largest falls have occurred in South-West Bengal, where they average 0·38 inch. Except in the case of South-West Bengal, North Behar and Chutia Nagpur, where the falls have been very slightly in excess of the normal, the rainfall has generally been decidedly deficient.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 8th of March 1889:—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	100·4	61 6	86·6	69·1	77·9	+1·2	Nil	0·23	—0·23	0·0	0 6	—0·6	Nil	0·25	51·63	54·63
South-West Bengal ...	94·3	56 8	88·8	64·4	76 6	—1·3	0·38	0·36	+0·02	1·0	0·7	+0·3	0 38	0·41	57·00	58 45
East Bengal	93·0	53·5	87·8	62 1	75·0	—0·7	0·14	0·70	—0·56	0·5	1·0	—0 5	0·14	0·75	72 00	70·07
North Bengal	91·2	50·9	86·3	57·4	71·9	—1·6	0·01	0·18	—0·17	0 2	0·5	—0·3	0·01	0·23	56·55	71·24
North Behar	86·7*	52 9*	83·6*	58·8*	71·2*	—0·5*	0·03	0·15	—0·12	0·4	0 5	—0·1	0·19	0·15	45·70	49·37
South Behar	90·8	55·8	85 9	61·2	73·6	—0·9	0·23	0·14	+0·09	0 7	0 4	+0·3	0 30	0·15	51·71	44·45
Chutia Nagpur	88·0†	57·4†	83·8†	60 0†	71 9†	—0·4†	0·30	0·24	+0·06	1·1	0 5	+0·6	0 32	0·26	51·97	50·49

* Chupra not included. | † Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL; A. PEDLER,
The 12th March 1889. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 3rd to 9th March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr	Temperature.						Hygrometry.			Rainfall past 24 hours
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
March ...	3rd ...	30·148	79 0	89 0	20·1	68·9	79 6	72·6	·709	69·0	70	Nil.
" ...	4th ...	·166	79 4	89·0	19·2	69·8	82 6	67·6	·476	57·6	43	"
"	5th .	·178	75·7	88 5	25·6	62·9	81·6	65·6	·418	54·0	39	"
" ...	6th ...	·123	74·5	88·0	27·0	61·0	81·1	65 1	·407	53·2	38	"
" ...	7th ...	·071	76 6	90 2	27 3	62 9	82·1	69·6	·557	62 0	51	"
" ...	8th ...	·051	78·7	90 8	24·3	66 5	80·1	69·9	·596	63 9	58	"
" ...	9th ..	·053	79·0	91·9	25·8	66·1	83·1	73·0	·678	67·7	60	"

	Inches.
The mean 10 A.M. pressure of the seven days	30·113
	°
The mean temperature of the seven days	77·6
The extreme variation of temperature	30·9
The maximum temperature	91·9
	%
The mean 10 A.M. relative humidity of the seven days	51
	Inches.
The total fall of rain from 3rd to 9th March 1889	Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA; A. PEDLER,
The 2th March 1889. *For Offg. Meteorological Reporter to the Govt. of India.*

MEMORANDUM.

THE chief features in the vital statistics of the principal Municipalities in Bengal for the week ending 23rd February 1889, deduced from the table annexed to this memorandum, are as follows :—

1. During the week in question births and deaths were registered in the proportions respectively of 22·4 and 25 8 per 1,000 of population, against 23 and 24·8 per 1,000 respectively during the preceding week ending 16th February, indicating an improvement in the registration of deaths.

2. The following Municipalities returned the highest proportions of births and deaths :—

Births.

	Ratio per mille.
Durbhanga	40·1
Rampore Beauleah	39·4
Utterpara	37·7
Hughli	37·6
Serampore	37 3
Comillah	34·7
Kishnaghur	32·2
Monghyr	31·6

Deaths.

	Ratio per mille.
Suburbs of Calcutta	46·1
Utterpara	37·7
Howrah	36·1
Bali	35 1
Durbhanga	33 0
Kishnaghur	30 3

3. As compared with the results of the preceding week, there was a noticeable increase of mortality from fever and a sensible diminution in the number of deaths from the maladies coming under the head "Other causes." The death-rates from the other diseases, excepting small-pox, exhibited only fractional variations, *vide* subjoined figures :—

	Ratio per *mille* during the weeks ending—	
	23rd Feb. 1889.	16th Feb. 1889.
Cholera	3·4	3·2
Small-pox	·2	·2
Fever	10·9	8·8
Bowel-complaints	4 1	4·2
Injury	·2	·5
Other causes	6 9	7 9

4. The greatest suffering from Cholera, Fever and "Other causes" occurred in the following Municipalities. The other diseases denominated in the above table exhibited no special local severity :—

Cholera.

	Ratio per mille.
Howrah ...	17·2
Suburbs of Calcutta ...	9·1

Fever.

	Ratio per mille.
Rampore Beauleah ...	26·3
Purneah ...	24·2
Kishnaghur ...	20 8

Other causes.

	Ratio per mille.
Serampore ...	13·7
Midnapore ...	12 4
Suburbs of Calcutta ...	12·4
Bhagulpore ...	10 9
Puri ...	10·5

5. With regard to mortality referable to *Sex, Class* and *Age*, the rates of deaths stood as follows :—

According to Sex.

	Ratio per mille.
Males	28·0
Females	23·2
Ratio of male deaths to every 100 female deaths	136

According to Class.

	Ratio per mille.
Christians	13·0
Hindus	26·6
Mahomedans ...	24·3
Other classes ...	36·4

According to Age.

	Ratio per mille.
Under 1 year ...	185·2
1 and under 5 years ...	24·6
5 " 10 " ...	5·6
10 " 15 " ...	10·9
15 " 20 " ...	16 7
20 " 30 " ...	21·5
30 " 40 " ...	20·5
40 " 50 " ...	20·8
50 " 60 " ...	32·8
60 years and upwards ...	64 0

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 11*th March* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending [illegible]

DISTRICTS.	NAMES OF MUNICIPALITIES.	Population: Males.	Population: Females.	Population: Total.	Births, Number of—: Males.	Births, Number of—: Females.	Births, Number of—: Total.	Births, Ratio per 1,000 of Population per Annum: Males.	Births, Ratio per 1,000 of Population per Annum: Females.	Births, Ratio per 1,000 of Population per Annum: Total.	Ratio of male births to every 100 female births.	Deaths from—: Cholera.	Deaths from—: Small-pox.	Deaths from—: Fevers.	Deaths from—: Bowel-complaints.	Deaths from—: Injury.	Deaths from—: Other diseases.	Deaths from—: All causes.	Ratio per 1,000 of Population per Annum: Cholera.	Ratio per 1,000 of Population per Annum: Small-pox.	Ratio per 1,000 of Population per Annum: Fevers.	Ratio per 1,000 of Population per Annum: Bowel-complaints.	Ratio per 1,000 of Population per Annum: Injury.	Ratio per 1,000 of Population per Annum: Other diseases.	Ratio per 1,000 of Population per Annum: All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Sex, Deaths: Males.	Sex, Deaths: Females.	Sex, Ratio per 1,000 of Population per Annum: Males.	Sex, Ratio per 1,000 of Population per Annum: Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	13	6	19	19·8	9·2	29·0	216	1	...	13	1	...	3	18	1·5	...	19·8	1·5	...	4·6	27·5	41·2	6	12	17·3	39·0	50
Midnapore... ...	Midnapore	16,927	16,633	33,560	3	4	7	4·6	6·2	10·8	75	1	...	2	4	...	8	15	1·5	...	3·1	6·2	...	12·4	23·2	13·9	8	7	24·6	21·9	114
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	17	11	28	22·8	14·8	37·6	154	3	...	10	5	.	1	19	4·0	...	13·4	6·7	...	1·3	25·5	26·9	11	8	29·8	21·3	137
Serampore ...	Serampore	13,559	12,937	26,496	13	6	19	25·5	11·8	37·3	216	1	...	5	2		7	15	2·0	...	9·8	3·9	...	13·7	29·4	31·4	12	3	46·0	12·1	400
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	1	...	1	2	...	...	4	9·4	...	9·4	15·9	...	...	37·7	9·4	1	3	17·1	63·3	33
Howrah ...	Howrah	53,153	37,660	90,813	26	17	43	14·9	9·7	24·6	152	30	...	15	10	1	7	63	17·2	...	8·6	5·7	·6	4·0	36·1	21·8	41	22	40·1	30·4	186
	Bali	7,836	6,979	14,815	4	2	6	14·0	7·0	21·1	200	1	...	4	3	.	2	10	3·5	...	14·0	10·5	.	7·0	35·1	17·5	7	3	46·5	23·4	233
24-Pergunnahs ...	Suburbs of Calcutta .	147,205	104,234	251,439	54	36	90	11·2	7·4	18·6	150	44	1	79	39	...	60	223	9·1	·2	16·3	8·1	...	12·4	46·1	46·3	132	91	46·6	45·4	145
Nuddea ...	Kishnaghur	13,263	14,214	27,477	10	7	17	18·9	13·2	32·2	142	...	...	11	..	...	5	16	...	...	20·8	...	..	9·5	30·3	11·4	8	8	31·4	29·3	100
	Ranaghat	4,028	4,655	8,683	...	...	...	..	..	...	....	...	...	..	2	...	...	2	...	...	.	12·0	...	...	12·0	...	1	1	12·9	11·2	100
	Santipore	13,708	15,979	29,687	1	2	3	1·7	3·5	5·2	50	..	...	4	...	..	.	4	...	...	7·0	...	...	..	7·0	24·5	4	.	15·2		No female death.
Jessore	Jessore	4,830	3,665	8,495	1	.	1	6·1	...	6·1	No female birth.	.	...	3	...	..	1	4		...	18·4	...	.	6·1	24·5	24·5	2	2	21·5	28·4	100
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	4	11	15	10·5	23·9	39·4	36		...	10		...	.	10		...	26·3	...	...	...	26·3	13·1	6	4	29·0	23·0	150
Darjiling	Darjiling*	5,029	2,947	7,976	1	1	2	6·5	6·5	13·0	100		..	2	...	.		2		..	13·0	...	..	.	13·0	13·0	2	...	20·7	..	No female death.
Dacca ...	Dacca	42,782	37,379	80,161	23	17	40	14·9	11·0	25·9	135	2	1	12	6	1	15	37	1·3	·6	7·8	3·9	·6	9·7	24·0	24·0	26	11	31·6	15·3	236
	Narainganj	7,605	4,956	12,561	1	1	2	4·1	4·1	8·3	100	1	...	2	1	..	1	5	4·1	.	8·3	4·1	..	4·1	20·7	53·8	4	1	27·4	10·5	400
Chittagong ...	Chittagong	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	...	...	1	1	.	3	5		...	2·3	2·3	...	7·0	11·7	7·0	2	3	7·8	17·7	66
Tipperah	Comillah	8,153	5,353	13,506	5	4	9	19·3	15·4	34·7	125		...	4	.		1	5	.	...	15·4		...	3·9	19·3	34·7	3	2	19·1	19·4	150
Patna	Patna City	78,762	81,475	160,237	31	8	39	10·1	2·6	12·7	387		2	12	1	.	11	26	.	·6	3·9	·3	...	3·6	8·4	13·6	9	17	5·9	10·8	52
Gya	Gya	38,290	37,831	76,121	20	11	31	13·7	7·5	21·2	181	2	1	22	2	1	8	36	1·4	·7	15·0	1·4	·7	5·4	24·6	17·8	22	14	29·9	19·2	157
Shahabad	Arrah	20,960	22,505	43,465	10	4	14	11·9	4·8	16·7	250	..	.	13		1	1	15	.	..	15·5	.	1·2	1·2	17·9	7·2	3	12	7·4	27·7	25
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	8	2	10	9·7	2·4	12·2	400	...	...	2	2	..	4	8			2·4	2·4	...	4·9	9·7	15·5	4	4	9·0	10·6	100
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	23	28	51	18·1	22·0	40·1	82	..	.	22	12		8	42		.	17·3	9·4	...	6·3	33·0	14·9	20	22	30·8	35·4	90
Sarun	Chupra	26,044	27,205	53,249	18	12	30	17·6	11·7	29·3	150	..	..	4	3	.	6	13	...	..	3·9	2·9	.	5·9	12·7	15·6	6	7	12·0	13·4	85
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	22	10	32	19·9	9·1	29·0	120	...	...	9			12	21	.	...	8·1		...	10·9	19·0	19·0	13	8	22·8	15·0	162
Monghyr	Monghyr	28,154	29,366	57,520	19	16	35	17·2	14·4	31·6	118		..	5	6	1	6	18	.	..	4·5	5·4	·9	5·4	16·3	26·2	13	5	24·0	8·9	260
Purneah	Purneah	8,463	6,553	15,016	1	4	5	3·5	13·8	17·3	25	..	...	7	.	.	1	8		..	24·2	..	...	3·4	27·7	24·2	5	3	30·7	23·8	166
Puri	Puri	13,247	11,537	24,784	7	7	14	14·7	14·7	29·4	100			2	3	1	5	11			4·2	6·3	2·1	10·5	23·1	37·8	7	4	27·5	18·0	175
	Total ...	702,890	619,691	1,322,581	340	230	570	13·4	9·0	22·4	147	87	5	276	105	6	176	655	3·4	2	10·9	4·1	·2	6·9	25·8	24·8	378	277	28·0	23·2	136

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO— Class (13, 14)

DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	12	6	...	...	...	26·3	30·4	...	...
Midnapore	Midnapore	...	12	3	...	...	...	24·1	21·6	...	...
Hughli	Hughli and Chinsurah	1	13	5	...	...	126·1	21·4	38·1	...	
Serampore	Serampore	...	14	1	...	...	...	25·8	55·4	...	...
	Utterpara	...	4	...	...	...	...	30·1	...	...	...
Howrah	Howrah	...	51	11	...	1	...	38·9	27·9	...	215·8
	Bali	...	10	...	...	...	...	35·1	...	...	...
24-Pergunnahs	Suburbs of Calcutta	2	146	75	...	...	25·7	50·6	40·4	...	...
Nuddea	Kishnaghur	...	12	4	...	...	...	33·5	25·1	...	...
	Ranaghat	...	2	...	...	...	...	14·2	...	...	...
	Santipore	...	4	...	...	...	...	10·0		...	...
Jessore	Jessore	...	3	1	...	...	...	34·6	13·6	...	...
Rajshahye	Rampore Beauleah	...	6	4	...	...	...	31·5	21·2	...	...
Darjiling	Darjiling	...	2	...	...	...	...	22·6	...	...	...
Dacca	Dacca	...	25	12	...	...	...	32·3	15·9	...	
	Narainganj	...	2	3	...	...	...	16·4	25·3	...	...
Chittagong	Chittagong	...	1	4	...	...	...	9·0	13·6	...	...
Tipperah	Comillah	...	...	5	...	...	...		35·2	...	...
Patna	Patna City	...	22	4	...	...	...	9·6	5·1	...	...
Gya	Gya	...	28	8	...	...	...	24·3	25·9	...	...
Shahabad	Arrah	...	8	7	...	...	...	13·4	29·3	...	...
Mozufferpore	Mozufferpore	...	5	3	...			8·7	12·5	...	...
Durbhanga	Durbhanga	...	35	7	...	...	...	39·7	20·7	...	...
Sarun	Chupra	...	11	2	...	...	...	13·9	8·7	...	...
Bhagulpore	Bhagulpore	...	13	8	...	...	...	17·0	24·1	...	...
Monghyr	Monghyr	...	11	7	...	...	...	12·8	29·0	...	...
Purneah	Purneah		6	2	...	...	...	34·0	18·4	...	...
Puri	Puri	...	10	1	...	...	...	21·2	247·6		...
	TOTAL	3	468	183	...	1	13·0	26·6	24·3	...	36·4

MORTALITY ACCORDING TO— Age (15): Deaths.

DISTRICTS.	NAMES OF MUNICIPALITIES.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	3	1	...	1	1	2	3	3	...	4
Midnapore	Midnapore	2		...	3	...	4	3	1	1	1
Hughli	Hughli and Chinsurah	3		...	2	...	4	...	6	1	3
Serampore	Serampore	4	2	...	...	1	...	4	1	1	2
	Utterpara	...	...	...	...	...	1	2	1	...	...
Howrah	Howrah	5	7	1	2	3	12	12	8	8	5
	Bali	3	1	2	...	...	2	...	...	1	1
24-Pergunnahs	Suburbs of Calcutta	40	15	2	6	14	53	33	21	21	18
Nuddea	Kishnaghur	5	...	...	2	...	1	2	...	4	2
	Ranaghat	...	...	...	1	...	...	...	...	...	1
	Santipore	1		...	...	1	...	...	1	1	...
Jessore	Jessore	1	1	...	...	...	...	1	1	...	...
Rajshahye	Rampore Beauleah	2	...	...	...	...	1	2	3	...	2
Darjiling	Darjiling	...	...	...	1	...	1	...	...	...	...
Dacca	Dacca	9	5	3	...	3	7	1	1	3	5
	Narainganj	2		...	...	...	1	1	...	...	1
Chittagong	Chittagong	...	...	...	...	...	1	1	...	...	3
Tipperah	Comillah	1	...	...	...	...	...	1	1	1	1
Patna	Patna City	3	2	...	1	1	4	2	...	4	9
Gya	Gya	4	2	...	3	3	3	6	4	4	7
Shahabad	Arrah	...	...	...	1	1	1	2	2	1	7
Mozufferpore	Mozufferpore	1	1	1	...	2	...	1	1	...	1
Durbhanga	Durbhanga	5	10	2	...	...	6	1	4	5	9
Sarun	Chupra	2	1		1	...	1	2	1	...	5
Bhagulpore	Bhagulpore	6	2	2	...	...	3	2	1	1	4
Monghyr	Monghyr	5	1	1		...	2	6	1	...	2
Purneah	Purneah	...	...	...	...	1	2	...	2	2	1
Puri	Puri	1	1	...	...	1	...	2	...	1	5
	TOTAL	108	52	14	24	32	112	90	64	60	99

MORTALITY ACCORDING TO— Age (16): Ratio per 1,000 of Population per Annum.

DISTRICTS.	NAMES OF MUNICIPALITIES.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	236·4	23·0	...	20·7	16·6	13·1	22·6	35·3	...	140·4
Midnapore	Midnapore	140·0	...	...	51·3	...	23·3	28·1	14·0	25·2	28·4
Hughli	Hughli and Chinsurah	165·4	...	...	34·4	...	27·1	...	60·5	15·9	68·2
Serampore	Serampore	293·0	57·6	...	...	23·8	...	41·8	15·4	27·2	74·8
	Utterpara	...	...	...	...	...	45·2	98·0	74·2	...	...
Howrah	Howrah	126·0	65·7	8·3	15·8	21·3	27·5	32·4	35·4	75·8	69·3
	Bali	430·9	52·1	97·6	...	...	31·1	...	...	49·6	71·0
24-Pergunnahs	Suburbs of Calcutta	436·5	48·3	5·3	17·4	40·4	47·4	33·3	32·2	64·4	65·7
Nuddea	Kishnaghur	524·2	...	...	37·0	...	10·8	24·3	...	98·7	60·2
	Ranaghat	...	...	...	59·9	...	...	...	...	...	91·4
	Santipore	61·5	...	...	...	23·4	...	...	14·8	22·6	...
Jessore	Jessore	268·0	105·3	...	...	...	...	34·0	49·5	...	...
Rajshahye	Rampore Beauleah	256·2	...	...	...	...	12·5	23·9	63·6	...	108·0
Darjiling	Darjiling	...	...	...	106·6	...	26·0	...	...	...	...
Dacca	Dacca	246·6	35·3	15·7	...	21·4	23·8	44·6	6·2	32·9	46·7
	Narainganj	372·8	...	...	...	...	19·5	24·3	...	...	79·8
Chittagong	Chittagong	...	...	...	...	...	11·2	15·6	...	...	196·0
Tipperah	Comillah	175·1	...	...	...	...	...	26·1	39·6	64·9	76·7
Patna	Patna City	36·[illegible]	7·1	...	3·6	4·7	7·2	4·5	...	14·7	33·9
Gya	Gya	116·2	16·4	...	23·2	29·8	10·6	24·5	21·3	31·6	70·7
Shahabad	Arrah	...	...	...	11·8	16·5	6·6	16·2	22·2	16·8	126·2
Mozufferpore	Mozufferpore	54·5	12·9	11·6	...	34·3	...	7·5	10·4	...	21·4
Durbhanga	Durbhanga	167·0	68·3	13·3	...	...	23·4	4·7	27·9	59·3	146·5
Sarun	Chupra	72·0	9·8	...	10·1	...	5·5	12·9	8·3	...	74·7
Bhagulpore	Bhagulpore	261·3	19·2	17·7	...	...	14·3	11·2	8·1	12·2	57·7
Monghyr	Monghyr	175·1	8·4	7·4	...	...	10·1	34·9	8·2	...	29·0
Purneah	Purneah	...	...	...	...	52·3	31·7	...	56·1	111·0	64·4
Puri	Puri	171·6	28·9	...	...	28·0	...	25·8	...	23·3	144·0
	TOTAL	185·2	24·6	5·6	10·9	16·7	21·5	20·5	20·8	32·8	64·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 11th March 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1888-89.

Areas leased for Irrigation up to the end of January 1889.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Details of areas leased. Five years, all crops.	Five years, kharif.	Annual leases. Kharif.	Rabi.	Sugar-cane.	Bhadoi	Hot-weather.	Total.	Grand Total.	Rainfall, 1888-89. During month	Up to end of month.	Rainfall, 1887-88. During month	Up to end of month.	Remarks
			C. ft.	C. ft.	C. ft.	Acres.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inch.	Inch.	Inch.	Inch.	
Orissa	Cuttack	Taldunda, 1st Reach.	1,342	......	4	9,832	7,024	......	10,049	. .	222	14		... ..	246	10,295	......	69 48	1·85	53·36	
		Taldunda, 2nd Reach.	566	41														48 52	2·30	49·65	
		Machgong ...	776	62	15	27,021	19,763	... .	27,239		1	..	. ...	..	1	27,240		49·63	2 30	28·55	
		Kendrapara ...	1,067	72·15	56·94	49,188	37,832	. ....	48,642	20	2,338	40	. .		2,398	51,040	..	37 03	1·58	33 78	
		Gobri .	372·92	20 54	20·54	1,717	669	... .	1,526	...	22	... ..	..	.	22	1,548	..	44·55	2·41	10 45	
		Gobri extension	648	15 99	7·19	2,845	... .	... ..	1,409		..	.	.	..	......	1,499	.. .	..	.....		
		Pattamoondi	885	74·94	58·95	9,203	8 052		8,682	. .	8		. .		8	8,690	. .	.	. .		
		High Level, Range I.	608	85·24	2 58	18,672	14,672	..	16,493	...	225	2	..	.	227	16,720	......	38·45	1 20	36 10	
		High Level, Range II	727·16	... ..	......	2,473	1,516	... ..	1,814	12	51			..	63	1,877	. .			.....	
	Balasore ...	High Level, Range III.	727 16	... ..	..	20,898	9,710	......	19,786	92	. . ..	120	..	.	212	19,998	.	51·12	1·13	50 85	
		Total ...		. .	.	141,349	99,268	......	135,730	124	2 877	176			3,177	138,907	.				
	Total of the corresponding period of last year.			..	... .		. .	. .	104,242	45	555	171			771	105,013			..		
South-Western.	Midnapore ..	Midnapore .	1,411	20	.	49,769	57,909	. .	54,413	...		.	..	.		54,413	1 62	63 20	0·43	53·28	Whole month discharging.
		Panchkoorah	522	54	...	4 619	3,578	... ..	5,607	44	1,202	.	..		1,246	6,853	0 26	55 68	1 12	54 39	
	Howrah ...	Tidal Reaches, Ranges I and II.	......	......	.. .	399	207	.. ..	502	.			.	... ..	..	502	.	.. ..	.. ...	...	
		Total ...	..			54,777	61,694		60,522	44	1,202				1,246	61,768	.	. .	.		
	Total of the corresponding period of last year.		.. .	......	..		... ..	... ..	63,288	...	1,162		.	.	1,162	64,450	.. ...	.	... ..	... .	
Sone	Shahabad ...	Western Main ..	4,342	1,909	101	27,936	30,369	15,358	. .	1,935*	8,602	108	32	201	10,969	26,326	1·39	41·12	1·08	34·14	* Less area due to transfer to five-year leases.
		Buxar	1,226	398	255	89,371	82,965	44,367	.	17,482*	19,518	1,494	171	1,971	40,546	84,933					
		Arrah ...	2,000	1,105	798	167 724	140,729	100,899	..	29 341	18,441	1,504	27	6,552	56,395	157,294	1·24	38 31	1·01	39 71	
	Patna and Gya.	Eastern Main ..	1,466	422	324	1,731	1,539	846	... .	479	74	10			563	1 429	4 85	46 68	0 89	46·43	
		Patna				64,477	60,722	36,265	...	19,651	5,601	216	101		25,569	61,834					
		Total ...	...	. ..	. .	351,239	316,324	197,755		68,888	52 526	3,262	331	9,054	1,34,061	331,816		.	..	.	
	Total of the corresponding period of last year.		......	... ..	.. .	.. .	... ..	206,360	.	43,541	15,690	3,891	224	9,313	72,659	279,019	.	..	.	......	
		Grand Total ...	... .	...	.. .	547,365	477,286	197,755	196,252	69,056	56,605	3,438	331	9,054	1,38,484	532,491	.			.	
	Grand Total of the corresponding period of last year		......	... ..	....	.. ..	..	206,360	167,530	44,748	16,245	4,062	224	9,313	74,592	448,482	... ..	..	. . ..	. . . .	

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

The 11th March 1889.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of January 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
547	1. Grain ...	749	4,054	4,803	2,91,319	4,803	2,91,319	* Only 6 maunds passed "Down" on Bhagiruthy at Jungipur
......	2. Cotton ...	......	......	......	......	......	......	
28	3. Oilseeds ...	8	392	400	44,997	400	44,997	
326	4. Salt ...	3,101	......	3,101	2,63,156	3,101	2,63,156	
1	5. Piece-goods* ...	......	......	......	1,200	......	1,200	
21	6. Metal .	76	19	95	1,07,000	95	1,07,000	
18	7. Building materials	214	5	219	5,760	219	5,760	
943	8. Miscellaneous ...	2,734	6,275	9,009	17,05,181	9,009	17,05,181	
70	9. Fuel ...	581	186	767	9,584	767	9,584	
32	10. Timber ...	225 c. ft.	10,865 c. ft.	11,090 c. ft.	32,857	11,090 c. ft.	32,857	
2	11. Bamboos ...	16 "	40 "	56 "	5	56 "	5	
1,954 & 34 rafts.	12. Total ...	7,463 & 241 c. ft.	10,931 & 10,905 c. ft.	18,394 & 11,146 c. ft.	24,61,059	18,394 & 11,146 c. ft.	24,61,059	
2,055 & 82 rafts.	13. Total of same month last year	5,056 10/48 & 795 c. ft.	11,268 & 19,000 c. ft.	16,324 10/48 & 19,795 c. ft.	15,96,340	16,324 10/48 & 19,795 c. ft.	15,96,340	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	943	1,011	1,954
14A. Ditto empty boats, steamers, &c. No.	559	192	751
15. Total number of boats plying passenger No.	597	532	1,129
15A. Ditto empty boats "	23	17	40
16. Total registered tonnage, cargo Tons	20,363	22,685	43,048
17. Total registered tonnage, passenger Tons	211	199	410
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	10,63,103	13,65,094	24,28,197
20. Number of passengers No.	1,813	1,388	3,201
21. Rafts, bamboos C. ft.	16	40	56
22. Do., bullahs "	225	10,865	11,090
23. Estimated value of rafts Rs.	428	32,434	32,862
24. Tollage on boats "	4,248-9-6	5,600-1-0	9,848-10-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	2-7-0	202-3-6	204-10-6
27.* Total tollage on boats per ton-mile ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	1-13-4

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	10,053	5	0
Total tollage of same month last year ...	9,550	0	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	319	15	0
2. Tollage per month ...	10,053	5	0
3. Total ...	10,373	4	0
4. Amount paid into Treasury during the month ...	9,872	7	0
5. Balance due at the end of the month ...	500	13	0

* Boats in these rivers do not pay per mile.

Abstract for the month of January 1889 *as compared with the corresponding month of the previous year.*

	1888-89. During the month.	1888-89. To end of the month.	1887-88. During the month.	1887-88. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	10,053 5 0	1,75,687 1 2	9,550 0 9	1,81,525 9 4

CALCUTTA,
The 12th March 1889.

G. A. G. SHAWE,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of January 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	PRIVATE. Value. Rupees.	REMARKS.
492	1. Grain ...	3,414	461	3,875	1,50,824	3,875	1,50,824	
......	2. Cotton ...	......	......	......	......	......	......	
......	3. Oilseeds ...	......	190	190	15,830	190	15,860	
26	4. Salt ...	......	28	28	25,100	28	25,100	
21	5. Piece-goods ...	......	1	1	415	......	200	
3	6. Metal ...	121	68	189	1,298	82	1,162	
13	7. Building materials	318	238	556	44,787	555	44,670	
1,019	8. Miscellaneous ...	76	204	280	2,945	190	1,685	
24	9. Fuel ...				972		972	
11 rafts	10. Timber ...	1,119 c. ft.	70 c. ft.	1,189 c. ft.	81	1,189 c. ft.	81	
17 "	11. Bamboos ...	......	700 "	700 "		700 "		
1,598 & 28 rafts.	12. Total ...	3,929 & 1,119 c. ft.	1,190 & 770 c. ft.	5,119 & 1,889 c. ft.	2,42,252	4,920 & 1,889 c ft	2,40,524	
1,347 & 16 rafts	13. Total of same month last year	4,052 & 456 c. ft.	1,481 & 450 c. ft.	5,533 & 906 c. ft.	2,34,222	5,533 & 906 c.ft	2,34,222	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	754	844	1,598
15. Total number of boats plying passenger No.	61	59	120
16. Total registered tonnage, cargo Tons	8,060	5,010	13,070
17. Total registered tonnage, passenger Tons	785	845	1,630
18. Ton-mileage ...	2,42,156	1,62,403	4,04,559
19. Estimated value of cargo Rs.	1,49,579	91,620	2,41,199
20. Number of passengers No.	1,899	2,468	4,367
21. Rafts, bamboos C. ft.	......	700	700
22. Do., bullahs "	1,119	70	1,189
23. Estimated value of rafts Rs.	692	361	1,053
24. Tollage on boats "	4,225-4-9	2,853-10-3	7,078-15-0
25. Compounded tollage on boats Rs.	9-8-0	......	9-8-0
26. Tollage on rafts "	48-14-0	2-13-0	51-11-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	2-12-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,140	2	0
Total tollage of same month last year ...	6,665	9	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	3,810	9	9
2. Tollage per month ...	7,140	2	0
3. Total ...	10,950	11	9
4. Amount paid into Treasury during the month ...	5,673	0	6
5. Balance due at the end of the month ...	5,277	11	3

Abstract for the month of January 1889 *as compared with the corresponding month of the previous year.*

	1888-89. During the month.	1888-89. To end of the month.	1887-88. During the month.	1887-88. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	7,140 2 0	53,159 14 0	6,665 9 3	41,877 3 0

CALCUTTA,
The 12*th March* 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of January 1889.

Number of boats or rafts.	Description.	Total Government and Private.				Private		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
2,739	1. Grain ...	51,336	......	51,336	53,65,280	51,336	53,65,280	* For detail see next page.
......	2. Cotton ...	......	......	......	......	......	......	
7	3. Oilseeds ...	155	......	155	17,075	155	17,075	
378	4. Salt ..	482	5,674	6,156	5,60,218	6,156	5,60,218	
......	5 Piece-goods ...	......	......	......				
19	6. Metal ...	28	40	68	32,825	68	32,825	
295	7. Building materials	5,612	96	5,708	76,785	5,708	76,785	
2,687	8. Miscellaneous* ...	22,796	1,576	24,372	29,94,486	24,372	29,94,486	
610	9. Fuel ...	12,094	1,791	13,885	1,14,301	13,885	1,14,301	
......	10. Timber ...	......	......	......	......	... .	... .	
... .	11. Bamboos ...	......	. .	......	... .	......		
6,735	12. Total ...	92,503	9,177	1,01,680	91,60,970	1,01,680	91,60,970	
6,827	13. Total of same month last year.	91,330	7,814	99,144	66,85,090	99,144	66,85,090	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	6,136	599	6,735
14a. Ditto empty „	3,349	1,283	4,632
15. Total number of boats plying passenger No.	384	2	386
16. Total registered tonnage, cargo Tons	2,57,443	31,858	2,89,301
17. Total registered tonnage, passenger Tons	1,364	14	1,378
18. Ton-mileage ...	22,51,905	3,18,440	25,70,345
19. Estimated value of cargo Rs.	84,35,598	7,25,372	91,60,970
20. Number of passengers No.	203	21	224
21. Rafts, bamboos C. ft.	......		
22. Do., bullahs „	......	......	......
23. Estimated value of rafts Rs.	. ...	... .	......
24. Tollage on boats „	54,760-3-3	7,811-1-6	62,571-4-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	......	......
27. Total tollage on boats per ton-mile Pie	......	......	4·67
28. Ditto on rafts per 100 cubic feet Rs.	......	.....	......

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	62,571	4	9
Total tollage of same month last year ..	62,677	8	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,196	9	3
2. Tollage per month ...	62,571	4	9
3. Total ...	63,767	14	0
4. Amount paid into Treasury during the month ...	62,369	7	6
5. Balance due at the end of the month ..	1,398	6	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts	Description	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
762	(a) Jute ...	16,961	19	16,980	21 39,525	16,980	21,39,525	
93	(b) Jaggery ...	601	2	603	54,843	603	54,843	
1	(c) Sugar .	1	...	1	225	1	225	
...	(d) Tobacco ...	... ..	......	......	.. ...	......	... ..	
915	(e) Fish ...	223	...	223	62,371	223	62,371	
14	(f) Hides ..	18	......	18	4,150	18	4,150	
80	(g) Poultry ...	19	......	19	16,003	19	16,003	
155	(h) Hay and straw ...	1,146	.. ...	1,146	28,070	1,146	28,070	
76	(j) Oils ..	43	1,025	1,068	1,49,500	1,068	1,49,500	
40	(k) Earthenware ...	96	2	98	1,369	98	1,369	
546	(m) Other miscellaneous ...	3,688	528	4,216	5,38,430	4,216	5,38,430	
2,687	Total Miscellaneous ..	22,796	1,576	24,372	29,94,486	24,372	29,94,486	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of January 1889.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
5,753	1. Grain ...	16,937	2	16,939	13,98,225	16,939	13,98,225	* For detail see next page.
1	2. Cotton ...	2	......	2	800	2	800	
2	3. Oilseeds ...	53	......	53	4,875	53	4,875	
88	4. Salt ...	584	438	1,022	93,031	1,022	93,031	
......	5. Piece-goods ...	......	......	......	......	......	......	
......	6. Metal ...	......	......	......	......	......	......	
314	7. Building materials	3,055	7	3,062	11,460	3,062	11,460	
1,673	8. Miscellaneous* ...	5,485	105	5,590	5,85,868	5,590	5,85,868	
194	9. Fuel ...	3,682	124	3,806	30,764	3,806	30,764	
	10. Timber ...							
3	11. Bamboos ...	461 c. ft.	......	461 c. ft.	58	461 c. ft.	58	
8,025 & 3 rafts.	12. Total ...	29,798 & 461 c. ft.	676	30,474 & 461 c. ft.	21,25,081	30,474 & 461 c. ft.	21,25,081	
7,943 & 5 rafts.	13. Total of same month last year ...	29,791 & 2,383 c. ft.	435 & 540 c. ft.	30,226 & 2,923 c. ft.	18,14,553	30,226 & 2,923 c. ft.	18,14,553	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	7,928	97	8,025
14a. Ditto empty ... "	3,057	356	3,413
15. Total number of boats plying passenger ... No.	629	48	677
16. Total registered tonnage, cargo ... Tons	86,336	3,967	90,303
17. Total registered tonnage, passenger ... Tons	1,717	258	1,975
18. Ton-mileage	8,35,996	63,472	8,99,468
19. Estimated value of cargo Rs.	20,73,852	51,171	21,25,023
20. Number of passengers No.	5,614	768	6,382
21. Rafts, bamboos C. ft.	461	......	461
22. Do., bullahs ... "	......	......	......
23. Estimated value of rafts Rs.	58	......	58
24. Tollage on boats "	15,353-5-0	1,035-1-6	16,388-6-6
25. Compounded tollage on boats ... Rs	......	......	......
26. Tollage on rafts "	0-14-0	......	0-14-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·49
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-3-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	16,389	4	6
Total tollage of same month last year ...	18,190	12	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	502	3	9
2. Tollage per month ...	16,389	4	6
3. Total ...	16,891	8	3
4. Amount paid into Treasury during the month ...	16,552	1	9
5. Balance due at the end of the month ...	339	6	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
24	(a) Jute ...	190	......	190	23,962	190	23,962	
114	(b) Jaggery ...	648	......	648	58,939	648	58,939	
......	(c) Sugar ...	......	......	......	......	......	......	
9	(d) Tobacco ...	37	6	43	6,135	43	6,135	
411	(e) Fish ...	56	2	58	16,455	58	16,455	
1	(f) Hides ...	27	......	27	6,000	27	6,000	
2	(g) Poultry ...	1	......	1	136	1	136	
621	(h) Hay and straw...	1,056	2	1,058	22,410	1.058	22,410	
56	(j) Oils ...	525	3	528	73,875	528	73,875	
137	(k) Earthenware ...	144	14	158	2,209	158	2,209	
298	(m) Other miscellaneous ...	2,801	78	2,879	3,75,747	2,879	3,75,747	
1,673	Total Miscellaneous...	5,485	105	5,590	5,85,868	5,590	5,85,868	

ABSTRACT FOR THE MONTH OF JANUARY 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1888-89.						Traffic, 1887-88					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	62,571	4	9	3,43,225	8	3	62,677	8	0	3,21,918	0	9
Tolly's Nullah	16,389	4	6	1,09,229	8	0	18,190	12	0	1,08,788	7	0
Total ...	78,960	9	3	4,52,455	0	3	80,868	4	0	4,30,706	7	9

CALCUTTA,
The 12th March 1889.

G. A. G. SHAWE,
Under-Secretary to the Government of Bengal.

CALCUTTA AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 9th March 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 9th March 1889.			Week ending Saturday, the 10th March 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	888	2,29,550	4,020	1,163	3,59,598	5,075
Jute	78	57,200	1,005	70	64,625	834
Firewood	130	51,785	720	134	61,233	849
Other articles	1,106	2 88,540	4,527	963	2,57,825	4,168
Total ...	2,202	6,27,075	10,272	2,330	7,43,281	10,926

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 3 weeks and 5 days ended 26th January 1889, as compared with the same period of 1888.

Staples.	1889. Weight.	1889. Freight.	1888 Weight.	1888 Freight.	Increase. Weight.	Increase. Freight.	Decrease. Weight.	Decrease. Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living — Horses, ponies, and mules	No. 220	6,158	No. 169	4,602	No. 51	1,556	......	......
Animals, living — Cattle	" 100	561	" 47	353	" 53	208	......	...
Animals, living — Sheep and goats	" 2,424	2,115	" 3,101	2,255		......	No. 677	140
Animals, living — Other kinds	" 3	815	" 2	32	" 1	813	...	......
Borax	2,307	1,682	2,035	2,101	...	......	628	509
Canes and rattans	...	.....	...	.....	......		...	...
Caoutchouc (Indian-rubber)	2	6	14	20	......	. .	12	14
Chinese and Japanese ware	44	73	60	99	.....	....	16	26
Coal and coke, up	7,55,266	2,56,320	7,17,896	2,25,850	37,370	30,470	......	....
Ditto, down	27,22,065	3,72,889	22,78,935	3,19,639	4,43,730	53,250	...	...
Cotton, raw	1,97,469	1,54,186	2,29,081	1,70,476	.	......	31,612	16,290
Cotton, manufactured — Twist and yarn (European)	8,588	11,600	8,077	11,260	511	340	... ..	...
Cotton, manufactured — Ditto (Indian)	11,911	8,229	10,513	6,471	1,398	1,758	... ..	
Cotton, manufactured — Piece-goods (European)	1,06,611	1,24,650	1,31,686	1,41,308	.. ...	......	25,075	16,658
Cotton, manufactured — Ditto (Indian)	27,484	17,342	27,543	17,455		......	59	113
Drugs and Medicines — Assafœtida	295	260	631	376	..	......	336	116
Drugs and Medicines — Other sorts, not intoxicating	1,601	1,457	1,030	1,110	571	347	....	......
Drugs and Medicines — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	1,890	1,239	1,786	1,426	104	.....	... ..	187
Dyeing Materials — Indigo	7,287	8,519	6,370	7,677	917	842	....	..
Dyeing Materials — Madder or manjit	81	17	...	.	81	17	. ..	
Dyeing Materials — Safflower	168	128	177	111	.....	17	9	......
Dyeing Materials — Turmeric	6,965	3,299	6,682	3,511	383	....	... ..	212
Dyeing Materials — Other kinds	10,838	4,950	8,901	3,685	1,937	1,265	... ..	
Earthenware and porcelain	409	668	507	715		.	98	47
Fibrous products — Jute, raw	60,727	8,362	37,855	10,251	22,872	.	...	1,889
Fibrous products — Do., manufactured (gunny bags and cloths)	65,453	31,507	59,446	26,318	6,007	5,189	...	....
Fibrous products — Other fibres, raw	28,085	8,381	15,041	6,373	13,044	2,011		
Fibrous products — Ditto, manufactured	2,375	676	2,532	674	.. .	2	159	..
Fruits & Nuts — Cocoanuts	4,960	2,777	4,061	2,393	899	384		...
Fruits & Nuts — All other kinds	43,280	26,000	62,636	31,396	.... .	......	19,456	5,396
Grain & Pulses — Wheat	1,50,962	35,242	1,55,842	39,592	.	.. ..	4,880	6,350
Grain & Pulses — Gram and pulses	1,60,097	37,547	3,26,657	77,687	.	.	1,66,560	40,040
Grain & Pulses — Rice, husked	10,30,791	2,34,160	9,63,841	2,70,500	66,950	... .	.. ...	36,040
Grain & Pulses — Do., unhusked	28,116	3,243	12,656	2,613	15,460	630	.. ..	
Grain & Pulses — Other rain and spring crops	1,48,816	31,070	4,50,346	81,830	.	...	3,01,530	50,760
Government stores	18,420	23,465	11,729	20,806	6,691	2,659	..	.
Gums and resins	3,943	2,690	4,202	2,541	. .	149	259	
Hides & Skins — Hides of cattle	66,453	48,267	70,364	51,293		..	3,911	3,026
Hides & Skins — Skins of sheep, goats, and small animals	14,996	7,136	13,457	6,740	1,539	396	. .	..
Horns	1,629	702	[illegible]	419	644	283	......	..
Lac — Lac, dye	27	75	[illegible]	86	... .	.....	86	11
Lac — Do., shell	17,470	13,078	20, 65	16,241	. ..	.. .	3,295	3,163
Lac — Do., stick and other kinds	43,499	14,106	28,185	8,893	15,314	5,513	...	-
Leather — Leather, unmanufactured	2,183	3,909	1,994	3,677	189	232	. ....	
Leather — Ditto, manufactured	2,747	4,146	2,968	4,606	. .	..	221	460
Liquors	14,596	12,404	15,740	11,255		1,149	1,144	.
Mats	752	499	629	457	123	42	.	.....
Minerals	1,24,579	20,369	1,30,752	21,248	..	...	6,373	879
Metals and Manufactures of — Brass and copper	17,066	9,295	16,628	8,393	438	902	.	
Metals and Manufactures of — Iron	92,023	57,147	1,10,620	64,104		. ...	18,597	6,957
Metals and Manufactures of — Other metals	3,918	2,489	5,108	4,061			1,190	1,572
Oils	52,208	24,693	41,517	23,538	10,691	1,155	.....	... .
Opium	48,946	49,182	43,242	42,251	5,704	6,931		. . .
Paints and colours	3,876	2,539	1,838	2,412	2,038	127	... .	.
Provisions — Ghee	29,754	18,502	28,595	24,488	1,159	.....	.	5,986
Provisions — Other kinds	5,685	5,099	6,036	4,801	.	298	351	.....
Railway materials, Construction Account	84,718	1,820	64,188	3,068	20,230	. ...		1,248
Ditto ditto, Foreign	93,207	39,818	2,54,406	1,59,588	.	...	1,61,199	1,19,770
Salt	4,36,472	85,998	4,21,268	88,154	14,904	..		2,156
Saltpetre, &c — Saltpetre	73,277	30,925	61,815	29,864	11,462	1,061	.	. .
Saltpetre, &c — Other saline substances	8,340	2,130	16,171	4,202		. .	7,831	2,072
Seeds — Oil-seeds — Linseed	1,68,546	54,261	3,49,116	1,08,341		.. .	1,80,570	54,080
Seeds — Oil-seeds — Mustard and rape	82,532	17,663	93,852	24,553		..	11,320	6,890
Seeds — Oil-seeds — Til or gingelly	29,601	4,643	40,661	8,673	. .	. .	11,060	4,030
Seeds — Oil-seeds — Other oilseeds	38,829	9,530	35,099	8,310	3,730	1,220	......	.....
Seeds — Other seeds — Indigo seed	1,22,508	36,111	68,998	21,991	53,510	14,150	..	
Seeds — Other seeds — Tea seeds	..	..	..	.	.		... ..	. ..
Seeds — Other seeds — Other kinds	42,795	11,788	31,875	9,828	10,920	1,960	.	...
Silk — Silk, raw	2,714	1,757	2,461	1,320	253	437		.... .
Silk — Do., manufactured (European)	50	150	40	134	10	16	......	......
Silk — Do., ditto (Indian)	582	547	572	473	10	74		....
Spices	10,484	5,876	19,741	13,906	. ..	......	9,257	8,030
Stone and marble	1,42,374	14,790	84,515	10,428	57,859	9,362	......	......
Sugar — Sugar, refined	1,59,597	24,909	1,44,437	20,895	15,160	4,014	.	.
Sugar — Do., unrefined	3,82,077	54,232	4,03,801	64,365	. .	. .	21,724	10,133
Tea — Tea, Indian	1,457	2,297	1,748	2,644	.	. ....	291	347
Tea — Do., Foreign	440	72	834	80	.	. . .	394	8
Tobacco	13,306	6,693	15,132	5,467	.. .	1,226	1,826	.. ...
Wood — Timber	38,097	7,628	29,151	6,170	8,946	1,458	... ..	.. .
Wood — Firewood	34,236	2,012	45,407	2,831	... .	... ..	11,171	819
Wool — Wool, raw	1,134	886	832	845	302	40	... .	.. .
Wool — Do., manufactured (European)	1,334	1,674	1,325	1,666	9	8	... .	......
Wool — Wool, manufactured (Indian)	1,697	1,612	1,933	1,838	..	......	236	226
Wool — Shawls	.		.	...	... .	. .	......	.. ...
All other articles of merchandise	2,12,857	1,19,506	2,08,677	1,23,416	4,180	......	... ..	3,910
Bones	23,697	6,056	27,128	8,188	.....	... .	3,431	2,132
Potatoes	41,817	8,707	40,838	8,913	979	......	... ..	206
Total	83,98,917	22,73,973	85,45,816	25,32,910	8,59,168	1,53,961	10,06,067	4,12,898

General remarks on the fluctuation of principal staples carried over the East Indian Railway during three weeks and five days ended 26th January 1889.

INCREASES.

Coal and coke.—There was an increase in both upwards and downwards coal and coke traffic; that in the former is due to demands for Foreign Railways, and the latter to despatches to Howrah.

Gunny.—This increase was due to up-country demands

Government stores.—This increase is principally in despatches from *viâ* Ghaziabad, from Chunar, and from Allahabad Fort.

Opium.—Despatches in December were held over owing to unsettled weather. The deficiency was partly made up during January.

Stone.—The increase was principally from Mirzapur and neighbouring stations to Sahebgunge and Calcutta

DECREASES.

Cotton.—The decrease was at Cawnpore and Agra, and was due to failure of crops in the Cawnpore district and to Bombay competition.

Piece-goods, European.—This is attributable to the large despatches made during December, causing the markets to be over-stocked.

Wheat.—Due to the absence of demand for export and to short supplies.

Gram and pulses.

Other rain and spring crops.—There was an unusual demand up-country last year owing to scarcity.

Rice (husked and unhusked).—There was an increase in weight carried attended with a decrease in earnings; the former was in short distance traffic, and the latter was owing to long lead despatches last year.

Iron.—This is chiefly from Howrah owing to poor demand from Patna, Cawnpore, Agra and Delhi.

Railway material, Foreign—The decrease was from Howrah owing to the completion of the Indian Midland Railway

Salt.—Increase in weight carried and decrease in earnings was chiefly at Howrah, from which station despatches over short leads increased, but long distance consignments fell off.

Seeds.—This decrease was chiefly in linseed, and was due to the absence of demand in Calcutta.

Spices.—The decrease was in chillies from Mokameh and Mokameh Ghât, and was due to the crops being both late and poor

Sugar (refined and unrefined)—The decrease was in despatches from the Oudh and Rohilkhund Railways, and from Gya line stations.

Fruits, other kinds—The betel-nut traffic fell off after the heavy despatches in December, and there was also a decrease in hurra from Jubbulpore line stations

N. ST.L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE JAMALPUR, *the 8th March* 1889

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, *on* 1,513¾ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*275,875	*3,28,704 12 0	28,56,381 20	6,35,373 12 0	15,288 1 11	9,79,366 9 11	67,736¾	96,029½	163,766¼
Or per mile of railway	....	217 2 4	......	419 11 9	10 1 7	646 15 8	.....	.. ...	......
For previous 8 weeks of half-year	1,931,279	23,09,691 1 0	2,19,85,483 10	47,79,923 5 4	1,23,658 0 4	72,12,272 6 8	513,874¼	764,176½	1,278,050½
Total for 9 weeks ..	2,207,154	26,38,395 13 0	2,48,41,864 30	54,15,297 1 4	1,37,946 2 3	81,91,639 0 7	581,611	860,205½	1,441,816¾
Comparison.									
Total for corresponding week of previous year . .	262,081	3,50,313 13 11	27,32,061 20	6,40,288 3 9	21,140 7 9	10,11,742 9 5	69,062	104,330	173,392
Per mile of railway corresponding week of previous year	. .	231 6 9	......	422 15 9	13 15 5	668 5 11	......	......	......
Total to corresponding date of previous year	2,461,307	29,06,742 12 4	2,55,76,681 0	60,88,464 0 6	2,06,025 14 6	92,01,232 11 4	595,283	961,630	1,556,913

* The decrease in coaching traffic is chiefly due to figures for the corresponding period of 1888 having included traffic on account of troop extra trains.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 3rd March 1888			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,11,743	668	1,513¾	9,79,367	647	1,513¾	4,35,59,999	586	1,513¾	4,07,98,289	561	......	17,61,710

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	9,011	8,371 9 0	24,821 0	1,555 8 0	33 10 0	9,960 11 0	1,928	466	2,394
Or per mile of railway	158	146 5 8	434 0	27 3 1	0 9 5	174 2 2	......	......	......
For previous 8 weeks of half-year	*95,835	*50,687 0 0	†2,24,284 0	†13,714 5 0	‡292 1 10	64,693 6 10	14,299	4,857	19,156
Total for 9 weeks ...	104,846	59,058 9 0	2,49,105 0	15,269 13 0	325 11 10	74,654 1 10	16,227	5,323	21,550
Comparison.									
Total for corresponding week of previous year	19,538½	11,450 1 6	18,022 20	1,318 14 0	52 0 9	12,821 0 3	1,927	581	2,508
Per mile of railway corresponding week of previous year ..	342	200 2 10	315 10	23 0 11	0 14 7	224 2 4	... .	.. ...	......
Total to corresponding date of previous year	141,561½	79,242 6 5	2,84,285 30	18,378 1 0	495 8 9	98,116 0 2	16,919	4,969	21,888

* Added No of passengers 1,547 and Rs. 648 0 0 }
† Ditto mds. 41,389 and " 955 0 0 } on account of differences between the approximate and audited returns from 1st to week ended 26th January 1889.
‡ Ditto " 6 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	12,621	224	57½	9,961	174	57½	4,78,263	174	57½	*4,42,773	161	......	35,490

* Added Rs. 1,612 on account of difference between the approximate and audited figures from 1st to week ended 26th January 1889.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,730	456 5 0	13,392 0	320 14 0	13 8 0	790 11 0	371½	122	493½
Or per mile of railway	... ..	38 0 5	......	26 11 10	1 2 0	65 14 3	.....	......	... .
For previous 8 weeks of half-year	*19,902	*3,351 14 0	†1,37,567 20	†3,054 6 0	‡99 5 8	6,505 9 8	2,625½	1,181½	3,807
Total for 9 weeks ...	22,632	3,808 3 0	1,50,959 20	3,375 4 0	112 13 8	7,296 4 8	2,997½	1,303½	4,300½
Comparison.									
Total for corresponding week of previous year . ..	2,556½	437 12 5	25,391 30	595 15 0	13 3 0	1,046 14 5	327	166	493
Per mile of railway corresponding week of previous year	.....	36 7 8	.....	49 10 7	1 1 7	87 3 10	... .	....	......
Total to corresponding date of previous year	27,627	4,609 11 9	1,97,328 20	4,068 13 0	106 1 3	8,784 10 0	3,023	1,414	4,437

* Added No of passengers 530 and Rs. 72 0 0 }
† Deducted Mds. 505 and ,, 189 0 0 } on account of differences between the approximate and audited returns from 1st to week ended 26th January 1889
‡ Added ,, 27 0 0 }

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 3rd March 1888			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1889	Total decrease in 1889
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,047	87	12	791	66	12	44,305	77	12	*41,069	71	..	3,236

* Deducted Rs 90 on account of difference between the approximate and audited figures from 1st to week ended 26th January 1889.

SINDIA STATE RAILWAY.

Approximate Return of Traffic for last 5 days of February 1889, on 74⅝ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated)	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	4,833	3,640 10 0	23,534 20	2,342 11 0	61 4 0	6,044 9 0	807½	1,558	2,365½
Or per mile of railway		48 10 9	.	31 5 1	0 13 1	80 12 11	.	.	...
For previous 8 weeks of half-year	*44,152	*32,024 14 0	†3,87,449 20	32,931 14 0	‡709 4 6	65,666 0 6	5,280	7,776½	13,056½
Total for 9 weeks ..	48 985	35,665 8 0	4,10,984 0	35,274 9 0	770 8 6	71,710 9 6	6,087½	9,334½	15 422
Comparison.									
Total for corresponding week of previous year	4 716½	3,410 7 6	65,888 30	3,222 13 0	167 8 6	6,800 13 0	698	1,286	1,984
Per mile of railway corresponding week of previous year	......	45 9 6	..	43 1 4	2 3 11	90 14 9	... ...	.....	..
Total to corresponding date of previous year	44 569	32,651 5 1	8,51,965 10	39,664 4 0	1,039 3 3	73,354 12 4	6,093	14,249	20,342

* Added No of passengers 1,505 and Rs. 1,021 0 0 }
† Deducted Mds 2,28,831 and ,, 1,193 0 0 } on account of differences between the approximate and audited returns from 1st to week ended 26th January 1889
‡ Added ,, 2 0 0 }

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 3rd March 1888.			Receipts for last 5 days of February 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 28th February 1889.			Total increase in 1889	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74⅝	6,801	91	74⅝	6,045	81	74⅝	4,09,084	114	74⅝	*3,35,449	96	......	73,635

* Deducted Rs. 170 on account of difference between the approximate and audited figures from 1st to week ended 26th January 1889.

TARKESSUR BRANCH RAILWAY

Approximate Return of Traffic for week ended 2nd March 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	29,381	7,519 3 0	10,991 0	399 5 0	7 4 0	7,925 12 0	1,169	63	1,232
Or per mile of railway	......	337 15 1	......	17 15 2	0 5 2	356 3 5	.....	......	......
For previous 8 weeks of half-year	*154,874	*39,159 0 0	†74,516 20	†2,600 1 0	‡52 7 10	41,811 8 10	6,984	483	7,467
Total for 9 weeks ...	184,255	46,678 3 0	85,507 20	2,999 6 0	59 11 10	49,737 4 10	8,153	546	8,699
Comparison.									
Total for corresponding week of previous year	23,018	6,095 15 3	9,792 30	323 15 0	5 15 3	6,425 13 6	875	93	968
Per mile of railway corresponding week of previous year ...	......	273 15 7	......	14 8 11	0 4 4	288 12 10	.....	......	......
Total to corresponding date of previous year	193,895	50,217 11 8	78,096 10	2,717 0 0	61 7 6	52,996 3 2	8,019	825	8,844

* Added No. of passengers 350 and deducted Rs. 142 0 0 }
† Ditto Mds. 856 and „ 47 0 0 } on account of differences between the approximate and audited returns from 1st to week ended 26th
‡ Deducted „ 3 0 0 } January 1889.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	6,426	289	22½	7,926	356	22½	2,46,225	231	22½	*2,53,593	237	7,368	......

* Deducted Rs. 98 on account of difference between the approximate and audited figures from 1st to week ended 26th January 1889.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 23rd February 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	152,940	91,290 0 0	5,02,690 0	78,980 0 0	21,310 0 0	1,91,580 0 0	21,786	22,655	44,441
Or per mile of railway ..	227	136 0 0	747 0	117 0 0	*9 0 0	262 0 0	......	......	.....
For previous 7 weeks of half-year	964,679	4,86,300 0 0	33,46,960 0	6,93,370 0 0	1,08,870 0 0	12,88,540 0 0	145,099	181,295	326,394
Total for 8 weeks .	1,117,619	5,77,590 0 0	38,49,650 0	7,72,350 0 0	1,30,180 0 0	14,80,120 0 0	166,885	203,950	370,835
Comparison.									
Total for corresponding week of previous year	139,033	86,430 0 0	5,12,764 0	79,411 0 0	35,123 0 0	2,00,964 0 0	23,017	27,511	50,528
Per mile of railway corresponding period of previous year ..	215	134 0 0	795 0	123 0 0	*21 0 0	278 0 0	......	... ..	......
Total to corresponding date of previous year	1,119,856	6,22,969 0 0	41,17,910 0	6,72,376 0 0	1,38,036 0 0	14,33,381 0 0	176,064	198,586	374,650

* Excluding steam-boat earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	2,00,964	312	673	1,91,580	285	645	87,83,087	290	673	*96,61,436	306	8,78,349	......

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	26,530	11,130 0 0	56,320 0	2,840 0 0	60 0 0	14,030 0 0	3,658	2,075	5,733
Or per mile of railway	213	89 0 0	451 0	23 0 0	......	112 0 0	......	......	......
For previous 7 weeks of half-year	175,340	60,690 0 0	3,30,648 0	17,740 0 0	3,600 0 0	82,030 0 0	24,178	13,932	38,110
Total for 8 weeks ...	201,930	71,820 0 0	3,86,968 0	20,580 0 0	3,660 0 0	96,060 0 0	27,836	16,007	43,843
Comparison.									
Total for corresponding week of previous year	27,025	10,218 0 0	53,516 0	3,537 0 0	188 0 0	13,943 0 0	3,303	2,031	5,334
Per mile of railway corresponding period of previous year ..	216	82 0 0	428 0	28 0 0	2 0 0	112 0 0	......	......	......
Total to corresponding date of previous year	202,806	73,899 0 0	3,83,548 0	23,646 0 0	2,892 0 0	1,00,437 0 0	26,424	15,380	41,804

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipt for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,943	112	125	14,030	112	125	6,06,021	103	125	*6,38,298	109	32,277	....

* Audited up to week ending 22nd December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,920	5,130 0 0	10,610 0	750 0 0	1,410 0 0	7,290 0 0	2,402	702	3,104
Or per mile of railway ..	185	60 0 0	123 0	9 0 0	16 0 0	85 0 0	......	....	..
For previous 7 weeks of half-year	94,745	31,790 0 0	85,140 0	9,270 0 0	1,230 0 0	42,290 0 0	16,432	4,442	20,874
Total for 8 weeks ..	110,665	36,920 0 0	95,750 0	10,020 0 0	2,640 0 0	49,580 0 0	18,834	5,144	23,978
Comparison.									
Total for corresponding week of previous year .	14,867	4,896 0 0	8,537 0	914 0 0	373 0 0	6,183 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year	173	57 0 0	99 0	11 0 0	4 0 0	72 0 0	. ....		
Total to corresponding date of previous year	109,720	35,596 0 0	99,405 0	8,554 0 0	1,637 0 0	45,787 0 0	19,880	4,952	24,832

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
86	6,183	72	86	7,290	85	86	2,71,725	67	86	*2,71,517	67	. .	208

* Audited up to week ending 22nd December 1888.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd February 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week	3,000	1,140 0 0	34,230 0	1,970 0 0	30 0 0	3,140 0 0	532	532	1,064
Or per mile of railway .	81	30 0 0	901 0	52 0 0	1 0 0	83 0 0	. .	......	... .
For previous 7 weeks of half-year	20,511	8,360 0 0	171,180 0	12,840 0 0	160 0 0	21,360 0 0	3,596	3,596	7,192
Total for 8 weeks ...	23,601	9,500 0 0	205,410 0	14,810 0 0	190 0 0	24,500 0 0	4,128	4,128	8,256
Comparison.									
Total for corresponding week of previous year .	3,374	1,154 0 0	34,213 0	2,473 0 0	53 0 0	3,680 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	87	30 0 0	877 0	63 0 0	1 0 0	94 0 0	......	... .	.....
Total to corresponding date of previous year ..	25,512	9,062 0 0	187,947 0	13,609 0 0	385 0 0	23,056 0 0	4,368	4,368	8,736

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 25th February 1888.			Receipts for week ending 23rd February 1889.			Total receipts from 1st April 1887 to 25th February 1888.			Total receipts from 1st April 1888 to 23rd February 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
39	3,680	94	38	3,140	83	39	1,10,089	60	38	*1,57,236	88	47,147	..

* Audited up to week ending 22nd December 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 2nd March 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	4,628	1,637 0 0	10,759 0	560 0 0	29 0 0	2,226 0 0	509	254	763
Or per mile of railway ..	170	60 0 0	395 0	21 0 0	1 0 0	82 0 0	...	... ..	.. .
For previous 7 weeks of half-year	24,621	8,955 0 0	1,18,974 0	6,657 0 0	100 0 0	15,712 0 0	3,927	3,781	7,708
Total for 8 weeks ...	29,249	10,592 0 0	1,29,733 0	7,217 0 0	129 0 0	17,938 0 0	4,436	4,035	8,471
Comparison.									
Total for corresponding week of previous year	3,361	1,288 0 0	15,010 0	1,094 0 0	—94 0 0	2,288 0 0	509	581	1,090
Per mile of railway corresponding week of previous year	123	47 0 0	551 0	40 0 0	—3 0 0	84 0 0	. .	......	......
Total to corresponding date of previous year	30,571	11,316 0 0	1,66,795 0	8,148 0 0	274 0 0	20,038 0 0	4,581	4,506	9,087

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,288	84	27½	2,226	82	27½	86,131	67	27½	93,180*a*	73	7,049	......

a Includes supplementary adjustments.

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 2nd March 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	41,564	15,077 0 0	1,38,844 0	13,249 0 0	3,089 0 0	31,415 0 0	4,972	6,432	11,704
Or per mile of railway	152	55 0 0	500 0	49 0 0	2 0 0	106 0 0*	......	....	..
For previous 7 weeks of half-year	307,621	1,12,649 0 0	10,67,457 0	1,05,396 0 0	24,387 0 0	2,42,432 0 0	43,641	44,502	88,14.
Total for 8 weeks ...	349,185	1,27,726 0 0	12,06,301 0	1,18,645 0 0	27,476 0 0	2,73,847 0 0	48,613	51,234	99,847
Comparison.									
Total for corresponding week of previous year on 259 miles open	37,170	15,063 0 0	2,33,107 0	31,605 0 0	2,156 0 0	48,824 0 0	6,332	10,105	16,437
Per mile of railway corresponding week of previous year ...	144	58 0 0	901 0	122 0 0	2 0 0	182 0 0*	.....	...	.
Total to corresponding date of previous year	391,116	1,61,254 0 0	18,78,952 0	2,11,730 0 0	27,199 0 0	4,00,183 0 0	60,690	77,849	1,38,539

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	48,824	189	273	31,415	115	252·05	16,71,405	141	265·38	15,11,047	121	.. .. .	1,59,458

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs
Approximate earnings for week ending 23rd February 1889	8,071
Corresponding week last year	10,4 2
Decrease	2,331
Receipts from 1st January to 23rd February 1889	55,259
From 1st January to 25th February 1888	56,169
Decrease	9.0
	Miles.
Miles open week ending 23rd February 1889	51
Corresponding week last year	51
	Rs. A. P
Receipts per mile open week ending 23rd February 1889	158 4 1
Corresponding week last year	203 15 4
Decrease	45 11 3

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 13th March 1889.

REGISTERED No. 29.

No. 12 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 20, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

THE CANAL REVENUE REPORT FOR 1887-88.

No. 458IA.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

IRRIGATION.

Dated Calcutta, the 18th March 1889.

RESOLUTION.

THE CANAL REVENUE REPORT FOR 1887-88.

READ—

The Canal Revenue Reports for 1887-88 and the Chief Engineer's note on the same.

The total outlay, direct and indirect, to the close of the year 1887-88 on canals in Bengal, of which capital accounts are kept, has been Rs. 7,06,14,592. Of this sum Rs. 8,66,000 have been contributed by the Imperial Government from Famine Relief and Insurance Funds, Rs. 92,24,652 have been provided from Provincial revenues, and Rs. 5,97,49,285 have been charged to Loan Funds. In addition to the sums mentioned above, Rs. 7,74,655 have been expended on surveys and investigations for irrigation works which have not been carried out.

2. There are now in actual operation in Bengal 844 miles of canal, of which 614½ miles are navigable. The total area commanded by irrigation canals is 2,698,846 acres, of which area 1,768,811 acres are irrigable by the completed projects, and 1,398,147 acres are irrigable by the existing works. Of this last area, 475,138* acres, producing crops of the estimated value of Rs. 90,70,980, were irrigated during the year. The total number of boats plying in the canals was 190,839, of which 24,709 were passenger boats. The total value of goods passing through the canals in boats and rafts aggregated Rs. 9,08,97,988 approximately.

3. The receipts from, and expenditure on, the canals in operation for the last three years are given in the statement below: the figures include indirect charges :—

Name of Canal.	1887-88.		1886-87.		1885-86.	
	Receipts.	Expenditure.	Receipts.	Expenditure.	Receipts.	Expenditure.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. *
Major Irrigation Works.						
Orissa Canals	2,23,044	5,02,815	1,79,611	5,20,635	2,07,350	3,56,678
Midnapore Canal	2,34,378	2,50,849	2,34,185	2,35,219	2,62,484	2,18,127
Hidgellee Tidal Canal	41,858	66,976	54,404	23,645	52,435	50,147
Sone Canals	6,03,949	7,67,679	9,18,429	6,13,558	10,62,616	5,84,002
Total	11,03,229	15,88,379	13,86,629	13,93,087	15,84,935	12,08,954
Minor Works and Navigation.						
Irrigation and Navigation Works.						
Sarun Canals	20,665	29,307	12,427	28,659	41,143	23,331
Calcutta and Eastern Canals	5,79,934	2,24,656	4,83,654	1,92,264	4,79,484	1,96,209
Orissa Coast Canal	53,854	83,524	29,488	61,426	13,718	30,712
Total	6,54,453	3,37,577	5,25,569	2,82,349	5,34,345	2,50,252
Grand Total	17,57,682	19,25,896	19,12,198	16,75,436	21,19,280	14,59,206

There was thus a deficit for the year of Rs. 1,68,214. In addition to this, interest amounting to Rs. 23,13,446 was payable to the Imperial Government, so that the total deficit to be met from Provincial revenues was Rs. 24,81,660. The unfavourableness of the results for the last three years has thus been increasing, the deficits in 1885-86 and 1886-87 having been Rs. 15,89,119 and Rs. 19,56,284 respectively, and is again due both to falling off in receipts and increase in expenditure (though much more to the former than the latter) as compared with the previous year.

4. The increase in expenditure is to a very large extent a purely nominal one, so far as the Provincial revenues are concerned, and is due to a new method of accounting for the establishment, the charges for which are distributed approximately according to the establishments actually employed in divisions, instead of the Irrigation Department being assessed, as heretofore, with a fixed charge by percentage on expenditure, the remainder of the cost of establishment being shown against the Roads and Buildings Branch. The present method appears to be the fairer, and at any rate it shows in a clearer light what is the cost of establishment employed on the various canals. Chiefly on account of this alteration, the charges for Direction and Executive Establishments have increased by Rs. 2,12,967 as compared with last year, thus nearly accounting for the total increase in the working expenses. On the Orissa Canals there was, on the whole, a fair decrease, notwithstanding the increase in establishment charges, and the fact that a portion of the expenditure on repairing the breach made in the Mahanudi weir during the floods of 1886 fell in the year under review. On the Hidgellee Tidal and Orissa Coast Canals there was an increase, due, in the former case, to the necessity for carrying out the long-postponed silt clearance, and in the latter to the repairing damages caused by the cyclone of 1885. The comparatively small fluctuations on the other canals do not call for remark.

* Exclusive of 5,975 acres irrigated in an unauthorised manner in the Orissa Canals, and 13,855 acres of hot weather irrigation on the Sone Canals: this latter irrigation is almost entirely sugarcane and is included already in the kharif.

5. The revenue collected in the last three years on the works mentioned in the above statement is shown below:—

Head.	Revenue.		
	1887-88.	1886-87.	1885-86.
	Rs.	Rs.	Rs.
Water-rates	7,69,362	10,43,343	12,33,612
Navigation	9,21,482	7,88,685	8,34,780
Miscellaneous	66,838	80,170	50,888
Total ...	17,57,682	19,12,198	21,19,280

It will be seen that practically the falling off is entirely under Water-rates, whilst under Navigation there is a very satisfactory increase, to which reference will be made further on. An examination of the figures by canals shows that, although there is a small falling off on the Midnapore Canal, the decrease under Water-rates is otherwise wholly on the Sone Canals, there having been satisfactory increments both on the Orissa and Sarun Canals. The decrease on the Sone Canals is due to three causes—*Firstly*, the good collecting work of the year or two immediately preceding the year under review had largely diminished the arrears, so that there was actually less to collect; *secondly*, the comparatively small area irrigated in 1886-87 reduced the amount of the current demands; and *thirdly*, the agitation amongst the cultivators, which retarded the collections, so that there was a considerable increase in the closing balance as compared with the opening balance of the year.

6. The assessments or earnings of the same year are as follows:—

Head.	Earnings.		
	1887-88.	1886-87.	1885-86.
	Rs.	Rs.	Rs.
Water-rates	10,00,489	9,49,260	10,45,339
Navigation	9 21,482	7,88,685	8,34,780
Miscellaneous	66,838	80,171	90,481
Total ...	19,88,809	18,18,116	19,70,600

Judged by the standard of earnings, the working of the year would show for all canals a small excess over expenditure of Rs. 62,913.

7. The arrears of water-rates outstanding at the close of each of the last three years are shown in the statement following:—

Name of Canal.	Arrears.		
	1st April 1888.	1st April 1887.	1st April 1886.
	Rs.	Rs.	Rs.
Orissa Canals	92,109	87,458	64,884
Midnapore Canal	56,493	50,749	69,972
Sone Canals	4,11,281	2,31,582	3,98,321
Sarun Canals	27,265	26,437	15,912
Total ...	5,87,148	3,96,226	5,49,089

The increase in the outstanding balance is practically wholly on the Sone Canals, where, as already explained, the agitation amongst the cultivators and appointment of a Committee of Enquiry retarded the collections very seriously. The remissions were comparatively small, and were less even than those of last year.

8. It is necessary to distinguish between the collections of arrears and those of the current demand to understand clearly the results of the year's work. Of the outstandings of former years, a sum of Rs. 3,26,147, or over 76 per cent., was adjusted; 89·1 per cent. of this amount being collected, 4·9 remitted and 6·0 written off. On the whole, this is more favourable than last year, and the success was undoubtedly due in a great measure to the arrears in the Shahabad district having been collected before the agitation on the Sone Canals began. Of the current year's demand (which includes Rs. 1,30,559, due but not payable till after the expiry of the year), Rs. 4,59,375, or about 50 per cent. only was adjusted, about 1 per cent. of this having been remitted, and the rest, with the exception of a small sum of Rs. 86 written off, collected. The results cannot be considered satisfactory, but, so far as the Sone Canals are concerned, the falling off in the results is fully accounted for by the agitation to which reference has already been made. Notwithstanding, however, this difficulty, the Sone Canals, as a whole, show better results than Orissa or Midnapore, in neither of which was 50 per cent of the current year's demand collected. A considerable sum, some Rs. 19,000, was again written off as irrecoverable on account of old arrears on the Sone Canals, chiefly in the Shahabad district. In the Sarun Canals the total collections were a few hundred rupees short of the current year's guarantee, so that there was a slight increase in the outstanding balance as compared with the previous year. This is a vast improvement on the work of last year, but is still unsatisfactory. Excluding the sum due but not payable until after the close of the year, the total outstandings amount to Rs. 4,56,589. On the whole, and making allowances for the abnormal difficulties on the Sone Canals, the results can scarcely be deemed very unsatisfactory, and the Lieutenant-Governor notices with approval that the matter continues to receive the attention of the district officers. The necessity, however, to reduce the arrears, which still amount for years previous to the year under review to about a lakh of rupees, has not ceased, and Sir Steuart Bayley trusts that the subject will receive attention, especially in Orissa which, on the whole, is the most backward in this respect.

9. The total number of certificates for the recovery of arrears issued in all districts save Gya (the figures for which are not given, but they were very few during the year), was 28,805, against 30,504 issued in the previous year; and the pending cases were reduced from 28,953 to 19,369, good progress having been made in Orissa and in Shahabad. The progress, however, in Midnapore was not good, whilst the work in Patna, owing, apparently, to shortness of establishment, was very unsatisfactory. The reduction in the number of certificates issued continues.

10. The information regarding complaints, though fuller than that given last year, is still very incomplete. So far as can be gathered from the figures afforded in the reports, 10,332 complaints against assessments were pending from the previous year, or filed during the year on the "Major works" systems: of these 8,120 were disposed of, leaving 2,212, or rather more than 21 per cent., still pending. Considering the circumstances of irrigation in Bengal, the number filed, although large, does not appear to be out of proportion on the whole, though the following table would seem to show that there is considerable room for improvement on the Orissa Canals in the assessment of water-rate and administration generally; since, not only were the complaints more in proportion to the area irrigated than even on the Sone Canals, where the number was abnormally raised by agitation, but the percentage of complaints admitted was very high:—

	Orissa.		Midnapore.		Sone.		Total.	
	No.	Percentage on cases disposed of.	No.	Percentage on cases disposed of.	No.	Percentage on cases disposed of.	No.	Percentage on cases disposed of.
Pending or filed during the year	2,743		841	...	6,748	.....	10,332	.....
Disposed of ... Admitted	1,109	89·4	285	37·6	2,285	37·3	3,679	45·3
Disposed of ... Dismissed	131	10·6	472	62·4	3,838	62·7	4,441	54·7
Disposed of ... Total	1,240	100·0	757	100·0	6,123	100·0	8,120	100·0
Pending on 31st March 1888	1,503	....	84	....	625	......	2,212	....
Area irrigated in 1887-88. Acres	109,506		65,864		315,380		490,750	
Proportion of acres irrigated to one complaint	39·9		78·3		46·7		47·5	

The above table, for want of the necessary details, is not quite correct as regards the proportion of acres to one complaint, inasmuch as it has been impossible to separate the arrears from the complaints filed in the year, whilst the area for the year has been taken. Still for practical purposes of comparison it can be accepted, and the Lieutenant-Governor trusts that the above comparison will show the officers concerned of the Orissa Canals the necessity for greater care in assessing water-rates and in the administration of their duties generally.

11. The areas irrigated (actuals) during the last three years are detailed in the following table:—

		1887-88.	1886-87.	1885-86.
		Acres.	Acres.	Acres.
Orissa ...	Kharif ...	108,867	75,115	70,563
	Rabi ...	502	2,440	1,605
	Perennial ...	137	164	171
	Total ...	109,506	77,709	72,339
Midnapore ...	Kharif ...	65,864	63,762	70,604
Sone ...	Kharif ...	57,595	30,082	80,792
	Rabi ...	27,501	16,662	50,610
	Perennial ...	6,265	11 626	10,527
	Hot weather ...	13,855	15,278	10,857
	Five years' lease ...	210,164	194,556	179,784
	Total ...	315,380	268,204	332,570
	Total Major Works ...	490,750	415,675	475,513
Sarun ...	Kharif ...	1,699	566	888
	Rabi, including hot weather ...	2,519	1,580	3,677
	Total Minor Works ...	4,218	2,146	4,565
	Grand Total, Major and Minor Works ...	494,968	417,821	480,078

There is a very satisfactory increase on the Orissa Canals, and a satisfactory increase on the Sone Canals, due chiefly to the favourable character of the season from an irrigation point of view. Most of the increase on the Orissa Canals and a fair proportion of that on the Sone Canals is under long leases, so that the anticipation of an extension of irrigation expressed in the Resolution on last year's report appears to be receiving confirmation. The irrigated area on the Midnapore Canal continues unfortunately to decrease. The cause is said to be the irregularity and insufficiency of the supply in the Cossye river, and for this hitherto no practicable remedy has been found.

12. The tollage collections from the various canals for the last three years are given in the table following:—

Year.	Orissa Canals.	Midnapore Canal.	Hidgellee Tidal Canal	Orissa Coast Canal.	Sone Canals.	Calcutta and Eastern Canals.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1885-86	64,093	1 25,331	52,143	13,663	41,712	4,97,578	7,94,520
1886-87	58,664	1,09,693	51,904	28,587	49,665	4,73,193	7,71,706
1887-88	66,628	1,26,574	40,406	52,828	50,984	5,71,872	9,09,292

The increase is about 15 per cent. on the total collections of last year, and upwards of a lakh more than the collections of any previous year since 1882-83 inclusive, from which date only the whole of the figures are readily available. The chief increase is on the Calcutta and Eastern Canals, on which there was a small defect last year. It was, however, mentioned in last year's Resolution that the decrease did not point to any permanent decline, and the figures for

the year under review confirm this opinion. The increase is due to the expansion of the grain and jute traffic. The receipts on the Orissa Canals are the highest since 1882-83, when they were almost the same figures, viz., Rs. 66,736, the highest on record. On the Midnapore Canal they are the highest on record, excluding transport service receipts. The falling off in the Hidgellee Tidal Canal revenue is due to the closure of the canal for silt clearance. The increase in revenue on the Orissa Coast Canal is satisfactory, being in excess of the forecast.

13. On the Nuddea rivers there was a small falling off in the receipts, attributable to the impossibility during 1887-88 of maintaining more than one of the three alternative routes between the Ganges and Calcutta in a navigable condition, on account of the deterioration of the entrances from the Ganges.

14. The Lieutenant-Governor observes that the necessity for further enquiry and the collection of opinions from experts has hitherto prevented any action being taken on the report of the Commission that enquired in 1888 into the working of the Sone Canal system. These have now been brought to a completion, and the report will be disposed of without further delay.

15. With the exception of the revenue report of the Commissioner of the Orissa Division, all reports were received with fair punctuality. The Examiner's Finance Accounts were received about the same time as last year. Both in submitting and in dealing with the revenue reports, there is need, in the Lieutenant-Governor's opinion, for increased punctuality.

ORDER.—Ordered that a copy of this Resolution, and of the note and its accompaniments, be submitted to the Government of India, in the Public Works Department, for information; also that copies be forwarded to the Appointment, Revenue and Financial Departments of this Government; the Board of Revenue, Lower Provinces; the Commissioners of the Presidency, Burdwan, Patna and Orissa Divisions; the Collectors of the 24-Pergunnahs, Nuddea, Hooghly, Midnapore, Burdwan, Patna, Shahabad, Gya, Sarun, Cuttack and Balasore; the Superintending Engineers of the Orissa, South-Western and Sone Circles; and the Examiner, Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,

Offg. Joint-Secy. to the Govt. of Bengal,

P. W. Dept.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

REVENUE REPORT.

Note by LIEUTENANT-COLONEL C. W. I. HARRISON, R.E., *Chief Engineer, on the Canal Revenue Reports for the year* 1887-88.

THE capital expenditure on Irrigation Works, for which capital accounts are kept, amounted during the year 1887-88 to Rs. 8,81,873 for direct and Rs. 21,145 for indirect charges—

	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.
Capital expenditure not charged against revenue	5,45,628	12,348	5,57,976
Minor Works and Navigation, Provincial	3,36,245	8,797	3,45,042
Total ...	8,81,873	21,145	9,03,018

2. The total capital outlay at the end of the year 1887-88, including indirect charges, was as follows:—

	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.
Major Irrigation Works			
Productive Public Works ...	5,81,08,956	16,40,329	5,97,49,285
Minor Works and Navigation.			
Protective grants—Imperial ...	8,66,000	.... ..	8,66,000
Ordinary revenue { Imperial and Provincial } ...	97,22,824	2,76,483	99,99,307
Total	6,86,97 780	19,16,812	7,06,14,592

3. This outlay is divided under the different projects thus:—

WORKS.	DURING 1887-88			TO END OF 1887-88.		
	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Irrigation Works.						
Orissa Canals	4,06,103	9,349	4,15,452	2 29 13 883	5.16,202	2,31 30,085
Midnapore Canal	1,353	82	1,435	82,63,345	1,83.658	84.47,003
Hidgellee Tidal Canal ...	.. ...	..	....	17 9[illegible]4[illegible]9	44,807	18,40.298
Sone Canals	1,38,172	2,917	1,41,089	2,51[illegible]6 2[illegible]9	8 95.662	2.60,31,901
Total ...	5,45,628	12,348	5,57,976	5,81,08 956	16,40,329	5,97,49,285
Minor Works and Navigation.						
Tirhoot Project	.....	......	. . ..	5,31,425	74,650	6,06,075
Damoodah Project	(—)1 200	......	(—)1,200	1 52 341	16,2[illegible]9	1,68,580
Calcutta and Eastern Canals..	15,343	499	15,842	51,79,566	59,550	52,39,116
Orissa Coast Canal	3,22,102	8,293	3,30,400	4[illegible].56 262*	98,861	41,55,123
Sarun Canals	......	...	......	6,69 23[illegible]	27,183	6,96,413
Total ...	3,36,245	8,797	3,45,042	1,05,8[illegible],821	2,76,483	1,08,65 307
GRAND TOTAL ...	8 81,873	21,145	9.03 018	6 85,97,780	19,16 812	7,06,14,592

* Includes expenditure of Rs. 8,66,000 from famine protective grants.

REVENUE.

4. The following statement shows the total receipts, working expenses, and charges for interest in respect of the works which are classed as Major Irrigation Works during 1887-88 and four previous years :—

PARTICULARS.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts from all sources	11,03,229	13 86 629	15,84,935	13,07,521	11,69,841
Working expenses (direct charges) ...	15,03,585	13 32,600	11,53,416	11,79,758	10,69,394
Net revenue	(—) 4,00,356	54 029	4 31,519	1,27,.63	1,00 447
Charge for interest	23,13,416	22,91,006	22,66,710	22 29,979	21,77,670
Deficit	27,13 802	22,36,977	18,35,191	21,02 216	20,77,223
Indirect charges debitable to Revenue	84,734	60,4-7	55,538	55 3,1	49,974
Total deficit ...	27,98 536	22,97,464	18,90,729	21,57,517	21,27,197
Rate per cent. on capital outlay ...	4·68	3 83	3 23	3·72	3·74

INTEREST

5. The total amount of interest payable to the Imperial Treasury on account of Major Irrigation Works for the year is Rs. 23,13,416.

FINANCIAL RESULTS

6. The following statement shows the financial results of both Major and Minor Irrigation Works, of which Capital and Revenue accounts are kept, to the close of the year 1887-88 :—

		Major Irrigation Works		Minor Works and Navigation.
		Rs.		Rs.
Direct revenue		1,38,71,155		1,99 11,386
Working expenses (direct charges)		1,41,88 526		76,06,529
Results on direct charges only ...	Loss ...	6,17,371	Profit ..	1,23,01,857
Indirect charges debitable to revenue		7,45,512		1,90,229
Results on both direct and indirect charges ...	Loss ...	13,62,883	Profit ...	1,21,14,628
Charges for interest on capital ...		3,17,24,078		Not calculated.
Net results including interest to end of 1887-88 . ..	Loss ..	3,30,86,961		...

Thus on Major Irrigation Works the net loss to the end of the year is, including interest, Rs. 3,30,86,961, or as much as 55·38 per cent. of the gross capital outlay, including all charges.

7. The expenditure on and receipts from Irrigation, Navigation, and Agricultural Works during the year 1887-88, as compared with those of preceding year, are shown below :—

EXPENDITURE

EXPENDITURE.	1887-88. Rs.	1886-87. Rs
35.—Construction of Protective Irrigation Works—		
Imperial	...	84,000
42.—Major Works—Working Expenses—		
Provincial	15,03,585	13,32,600
43.—Minor Works and Navigation—		
Irrigation and Navigation Works—		
Imperial	......	(—) 1,200
Provincial	8,01,174	6,04,377
Total ...	8,01,174	6,03,177
Agricultural Works—		
Imperial	......	5,45,436
Provincial	7,17,359	84,340
Contributions	5,849	13,605
Total ...	7,23,208	6,43,381
49.—Irrigation Works—Capital expenditure not charged against Revenue	5,16,824	5,76,359
Grand Total ...	35,44,791	32,39,517

Receipts.		1887-88.	1886-87.
		Rs.	Rs.
XXIX.—Major Works—Direct Receipts—			
Provincial	...	11,03,229	13,86,629
XXX.—Minor Works and Navigation—			
Irrigation and Navigation Works—			
Provincial	...	8,54,055	7,29,629
Agricultural Works—			
Imperial	...	......	4,860
Provincial	...	8,606	3,059
Total	...	19,65,890	21,24,177

RECEIPTS

8. The areas irrigated during the year 1887-88, and the four preceding years, by the Major Irrigation Works, are shown in the following statement:—

AREA IRRIGATED

Year.	Orissa Canals.				Midnapore Canal.				Sone Canals.				Total.			
	Kharif.	Rabi.	Perennial.	Total.	Kharif.	Rabi.	Perennial.	Total.	Kharif, including 5-year leases	Rabi.	Perennial.	Total.	Kharif.	Rabi.	Perennial	Total
	Acres	Acres.	Acres.	Acres.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.	Acres	Acres.	Acres.	Acres	Acres	Acres
1887-88	108,987	502	137	109,506	65,864	..	.	65,864	281,614	27,501	6,265	315,380	456,815	28,003	6,402	490,750
1886-87	75,115	2,440	154	77,709	69,762	.		69,762	239,916	16,642	11,626	268,204	384,793	19,102	11,780	415,675
1885-86	70,563	1,605	171	72,339	70,604		..	70,604	271,443	50,600	10,527	332,570	412,600	52,215	10,698	475,513
1884-85	51,181	2,994	197	57,372	69,994			69,994	283,841	77,558	9,261	370,661	407,316	80,652	9,459	497,327
1883-84	47,055	1,381	314	48,760	97,919	.	.	97,919	244,578	99,304	6,732	350,614	389,531	100,686	7,046	497,293

The year's working and its financial results will now be dealt with separately for each of the canal systems of the province.

ORISSA CANALS.

9. The Capital, Interest, and Revenue Accounts of these canals are given below:—

1.—CAPITAL ACCOUNT.

CAPITAL ACCOUNT

Heads of Account		Outlay during 1887-88	Outlay to end of 1887 88.
		Rs.	Rs.
Direct Charges.			
I.—Works	...	3,46,834	1,64,14,827
II.—Establishment	...	66,563	41,97,295
III.—Tools and plant	...	17,166	19,86,512
IV.—Suspense accounts	...	(—)23,521	1,25,218
V.—Loss by exchange	...	......	2,68,070
Total	...	4,07,342	2,29,91,922
VI.—*Less*—Receipts on Capital account ...	...	1,239	78,039
Net total	...	4,06,103	2 29,13,883
Indirect Charges.			
Capitalization of abatement of land revenue	..	30	32,456
Leave and pension allowances ...	...	9,319	4,83,746
Total indirect charges	...	9,349	5,16,202

2.—INTEREST ACCOUNT.

INTEREST ACCOUNT

			Rs.
Interest charges to end of 1886-87	...	...	1,19,45,651
Ditto for 1887-88	...	...	9,08,433
Total		...	1,28,54,084

REVENUE ACCOUNT.

8.—REVENUE ACCOUNT (Actuals).

	Expenditure.			Receipts.	
	During 1887-88.	To end of 1887-88.		During 1887-88.	To end of 1887-88.
I.—Maintenance and Repairs.	Rs.	Rs.		Rs.	Rs.
Works (extensions and improvements) ..	....	1,644	Water-rates ..	1,37,869	15,36,502
Repairs	3,10,980	33,10,394	Navigation ...	71 004	9 86,656
Compensation ...	.. ...	53	Miscellaneous ...	14,171	2,30,000
Establishment (including direction and accounts)	98,153	7,57,412	Direct revenue realised in England ...	......	38,686
Tools and plant ...	16,391	1,93,157			
Profit and loss ...	......	640			
Total ...	4,25 524	42,63,300			
II.—Revenue Management.					
Irrigation establishment	40,300	6,26,561			
Navigation ditto ...	15,125	1,59,997			
Total	55,425	7,86,558			
III.—Refunds of revenue	365	3,361			
IV.—Direct expenditure in England ...	......	6,945	Total receipts	2,23,044	27,91,850
			Deficit ...	2,58,270	22,68,314
Total ...	4,81,314	50,60,164	Total ...	4,81,314	50,60,164

EARNINGS.

10. The expenditure (direct charges only) and earnings are shown below:—

Expenditure.	Amount.	Earnings.	Amount.
I.—Maintenance and repairs.	Rs.		Rs.
Repairs	3,10,980	Water-rates	1,50,297
Establishment, including direction and accounts	98,153	Navigation	71,004
Tools and plant	16,391	Miscellaneous	14,171
Total ...	4,25,524		
II.—Revenue management.			
Irrigation establishment ...	40,300		
Navigation ditto ...	15,125		
Total ...	55,425	Total earnings ...	2,35,472
III.—Refunds of revenue.	365	Deficit	2,45,842
Total working expenses ...	4,81,314	Total ...	4,81,314

The earnings of the year include assessments made during the year under review on account of previous years, and the amounts legally due of the assessments of 1887-88.

LENGTHS OF CANALS.

11. The lengths of canals and distributaries in operation at the close of the year 1887-88 are given in the following statement:—

NAME OF CANAL.	Navigable canals.	Canals for irrigation only.	Distributaries and village channels.	Area protected from flood.	Area under command.	Area provided with distributaries.	Area irrigated, 1887-88.	Percentage of area irrigated to area provided with distributaries.
	Miles.	Miles.	Miles.	Acres.	Acres.	Acres.	Acres.	
Kendraparah system. Kendraparah	39	... ..	348½	120,421	101,110	91,000	54,404	54·2
Ditto extension	15	. ...		8,960	7,000	..		
Gobri (including extension).	21	...	......:	27,251	53,290	... ..		
Pattamoondee . .	......	47	32¾	65 600	51,250	9,387		
Taldundah system Taldundah	27	..	71½	19,520	15,250	15,250	31,227	54·9
Machgong	4	15	122½	44,928	68,206	41,600		
High Level Canal, Range I	33	.. .	131½	80,1.8	48,815	47,780	15,312	32·0
Total Mahanuddee Series ..	139	62	706½	375,808	344,921	205,017	100,943	49·2
High Level Canal, Range II . ..	12½	. ..	......	.	10,000	.	994	.
Ditto ditto, III ...	19	. ..	11¼	... ..	57,500	21,770	7,569	35·0
Total Brahmini-Byturni Series ...	31½		11¼	.	67,500	21,770	8,563	39 3
Total Orissa Canals ...	170½	62	718	375,808	412,421	226,787	109,506	48·2

When this is compared with the corresponding statement for the previous year, it appears that the total length of canals in operation is unaltered, but there has been an increase of 26¼ miles in the total length of distributaries, (that length having in the aggregate been completed on the Kendrapara and 3rd Range, High Level Canals, during the year), and a corresponding increase of 25,470acres in the area provided with distributaries. The area protected from flood remains the same as in the previous year, but there is an apparent reduction of 63,394 acres in the area under command, on account of areas which are commanded only by incomplete main canals having been excluded. Thus an area of 3,394 acres has been struck off from the area under command of the Machgong Canal and another of 60,000 acres from that under command of High Level Canal, Range II. No new village channels have been constructed.

RAINFALL.

12. The rainfall of the year 1887-88 and of the previous year is shewn in table No. IV E. There was a considerable decrease in the year under review.

The average rainfall in the immediate neighbourhood of the Orissa Canals, calculated on the figures at thirteen stations for eighteen years, is 56·28 inches, whilst the fall of the year at the same stations was 47·84 inches, or 8·44 inches below the average.

The Superintending Engineer supplies statistics of the rainfall in the upper districts drained by the Mahanadi. From these it appears that the average fall for the year at eleven observing stations was 52·18 inches. The average station fall for last year was 34 74 inches, and the average for the last six years, up to and including 1886-87, was 45·23 inches. The fall for the year under review is largely in excess of last year's and well above the average.

From the two statements below it is evident that the rainfall was during the kharif months much below the average of the last five years, but in most cases above the average during the rabi months :—

		AVERAGE OF THIRTEEN STATIONS.					
		1882-83.	1883 84.	1884-85.	1885-86.	1886-87.	1887-88
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Kharif season ...	July	17 81	13 03	9 58	10 68	10 65	11 67
	August ...	8·71	9·69	7 45	10 44	9 86	8 49
	September ...	8·94	9·77	11 29	10 08	14 66	6 12
	October ...	7 98	1·78	5 06	4 81	6 87	2 69
	Total ...	43·44	34·27	33·38	36·04	42·04	28 97
Rabiseason ...	November ...	1·55	0 15	0·23	1 26	1·56	0 87
	December ...	.....	1 53	0·07	1·20	0 45	......
	January ...	......	0 09	0 15	0·39	0·48	1·70
	February ...	0·39	1·58	2 63	0·05	....	1 26
	Total ...	1·94	3·35	3 08	2 90	2 49	3 83
	Whole year ...	58 98	57·18	50·42	51·49	60·05	47·79

Year.	Mahanadi Series.									Brahmini-Byturni Series.					
	Kendraparah system.			Taldundah system.			High Level Canal, Range I.			High Level Canal, Range II.			High Level Canal, Range III		
	Kharif.	Rabi.	Whole year.	Kharif.	Rabi.	Whole year	Kharif.	Rabi.	Whole year.	Kharif.	Rabi.	Whole year.	Kharif.	Rabi.	Whole year.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In	In.	In.	In.	In.	In.
1884-85 ...	35·65	4·75	54·75	20·52	2·15	47·85	32·24	2·45	52·15	31·78	2·91	46·24	30·24	2·86	48·34
1885-86 ...	34·50	1·82	52 64	36·44	2·82	50·42	31·63	3 14	49·88	34·14	2 64	55·41	36 20	2 60	55·27
1886-87 ...	39·97	2·66	63 59	42 86	3·97	64 76	41 67	1·53	63 16	44 02	1·48	62·18	42·72	2·08	64·79
1887-88 ...	28·93	3·74	49·35	28·59	3·39	46·90	26·48	1·98	44 77	27 98	2 40	47·04	30·15	3·26	52·83

IRRIGATION

13. The following statement shows the areas irrigated and yearly rainfall since 1878-79 :—

Year.	Kharif.	Rabi.	Perennial.	Total.	Rainfall.
	Acres	Acres.	Acres.	Acres.	Inches.
1878-79 ...	105,500	5,517	233	111,250	61·98*
1879-80 ...	105,186	3,616	236	109,038	60·85*
1880-81 ...	112,171	4,877	173	117,221	85·10*
1881-82 ..	126,611	5.403	264	132,278	56·92†
1882-83 .	128,530	4,100	398	133,028	59·03†
1883-84	47,035	1,381	344	48,760	57·21†
1884-85 ...	54,181	2,994	197	57,372	50·40†
1885-86 .	70,563	1,605	171	72.339	52·59†
1886-87	75,115	2,440	154	77,709	60 07†
1887-88 ...	108,867	502	137	109,506	47·84†

* Mean of observations in Cuttack and Marsaghai.
† Ditto ditto at 13 stations throughout canal-irrigated area.

There is thus a marked increase in the kharif area irrigated, regarding which the Deputy Revenue Superintendent reports that the character of the kharif season was favourable for canal irrigation. The early rains were insufficient for the operation of *beason ;* while the short rainfall of October again brought a number of cultivators to the canals. The diminution in the rabi area is explained by the Superintending Engineer as attributable, in the case of the Kendraparah canal system, to short supply caused by the breach in the Mahanuddee weir and to the closure of some distributaries for repairs ; while, on the Taldundah canal system, the Machgong Canal was closed at the end of the kharif season, in order to permit of the sanctioned extensions being carried out.

It may be noted that the area of 109,506 acres irrigated amounts to about 48 per cent., or nearly half, of the area provided with distributaries, which has been already stated to be 226,787 acres, as against 35·1 per cent. in last year.

The percentage of area irrigated to area provided with distributaries has advanced on all canals, the percentage for the two years being—

	1886-87.	1887-88.	Increase.
Kendraparah system ...	41·1	54·2	13·1
Taldundah do. ...	32·8	54·9	22·1
High Level, Range I	25·9	32·0	6·1
Ditto, II ...		No distributaries	
Ditto, III ...	No distributaries	35·0	......

14. The whole of the irrigated area was assessed. The figures below show the method of assessment, alongside of the figures of the two preceding years, for purposes of comparison :—

		1887-88.	1886-87.	1885-86.
		Acres.	Acres.	Acres.
Kharif ...	Five-year leases ...	102,863	73,699	65,762
	Annual leases ...	37	68	50
	Unauthorised irrigation ...	5,975	1,354	4,754
Rabi	... ...	501	2,439	1,604
Perennial ...	Sugarcane	130	149	169
Total, including unauthorised irrigation ...		109,506	77,709	72,339
Total, excluding unauthorised irrigation ...		103,531	76,355	67,585

The area actually leased was 105,036 acres, and was therefore 1,505 acres in excess of the area assessed under leases, as shown in this table. In explanation of the difference, the Deputy Revenue Superintendent states that of the lands leased on Ranges II and III, High Level Canal, it was found impossible from various causes to irrigate 1,505 acres, which were consequently excluded from the assessments.

15. The Revenue Deputy Superintendent brings to notice the hesitation exhibited as usual by the cultivators to renew the leases which expired on the 31st March 1888 over a large area, in the hope apparently of a reduction of rate. The almost total failure of the monsoon rains in the beginning of the irrigation season (15th June to 18th July) compelled them, with few exceptions, to renew the leases on the Kendraparah, Taldundah and Machgong Canals. The Superintending Engineer gives figures showing how the increase in the kharif leases was distributed among the canals, the rate of increase being greatest on the Taldundah and Kendraparah systems. In view of the pressing demand which sprang up in October, some increase in the unauthorised irrigation of unleased areas was to be expected. In that month the canal banks of Ranges II and III of the High Level Canal were cut in places where supply shoots had formerly existed. The lands thus illicitly irrigated were inspected by the Deputy Revenue Superintendent, and subsequently assessed.

UNAUTHORIZED IRRIGATION.

16. The revenue collected by the Canal Revenue Department consists almost entirely of water-rates, with miscellaneous incomings from canal lands, fisheries, plantations, &c. At the commencement of the year under review, the accounts showed an unrealised balance of Rs. 94,105, of which Rs. 87,458 was for water-rates. The additional assessments, which fell due within the year, came to Rs. 1,56,832, of which Rs. 1,50,298 was for water-rates. The last-named sum is composed as follows:—Rs. 1,03,294 was that portion of the assessments on the crops raised in 1887-88 which fell due within that year; Rs. 35,480 was the balance of the assessments on the crops of 1886-87 which did not fall due till 1887-88; while the remainder was for dues incurred in earlier years. Thus, including arrears, the gross amount, which was liable to be collected during 1887-88, was Rs. 2,50,937, of which Rs. 1,46,039 was realised and Rs. 8,331 either remitted or written off as irrecoverable. Accordingly the year closed with an unrealised balance of Rs. 96,567, of which, Rs. 92,110 was for water-rates.

ASSESSMENTS AND COLLECTIONS

This balance is rather larger than that inherited from the previous year. Some increase, however, was to be expected; as, owing to the increased demand for water, the amount to be collected was unusually large. The portion of the year's water-rates, which was recoverable from cultivators within the year, was, as already stated, Rs. 1,03,294; of this, Rs. 46,622 (including Rs 47 written off) was adjusted, or about 45 per cent., leaving an outstanding of Rs. 56,672. At the same time considerable reductions were made in the outstandings incurred in earlier years, which stood thus on 31st March 1888:—

	Water rates.	Miscellaneous.
	Rs.	Rs.
1879-80	......	18
1881-82	439	159
1882-83	783	536
1883-84	1,094	886
1884-85	3,199	934
1885-86	8,137	1,134
1886-87	21,785	720
	35,437	4,387
Outstanding for 1887-88	56,672	70
Total arrears ...	92,109	4,457
	96,566	

17. The results of the year as regards water-rate collections only—miscellaneous revenue being excluded—are briefly exhibited in the table below,

which is similar in form to that adopted in the reports of the last two years:—

	OUTSTANDINGS OF ALL YEARS UP TO AND INCLUDING 1886-87.			DEMANDS DUE IN 1887-88 FOR THE IRRIGATION OF THAT YEAR.		
	Rupees.	Percentage of demands outstanding on 31st March 1897.	Rupees.	Rupees.	Percentage of demands for the year.	Rupees.
Outstandings to end of 1886-87 with assessments made in 1887-88 ...	......	100·0	1,34,461	....	100 0	1,03,294
Adjustments made in 1887-88 ... Collections ...	91,294	67·9		46,575	45·09	
Adjustments made in 1887-88 ... Remissions ...	7,730	5 7		47	0.04	
Total adjustments ...	......	73·6	99,024		45 1	46,622
Outstanding on 1st April 1888 ...	......	26 4	35,437		54·9	56,672

The results compare favourably with those of last year, when the percentage of adjustment was for old outstandings 68·8, and for the current demand 31·6. The proportion of remissions is also moderate in amount. In the balance outstanding is included a considerable sum which will have to be remitted in 1888-89, owing to the assessments having been based on the total amounts of the leases; whereas, on account of the breach in the Mahanadi weir, remissions had to be made subsequently for areas left unirrigated. The realisations of water-rates exceeded the budget estimate by Rs. 17,869.

COMPLAINTS.

18. The Deputy Revenue Superintendent reports that 2,743 complaints against the assessments were received Of these 2,097 were brought to his office and 646 to the Certificate office. Of 1,240 complaints disposed of, 1,109 were found to be wholly or partly valid. On 1,503 complaints orders had not been passed at the close of the year. Besides these, 618 complaints of a miscellaneous character were received, of which 489 had been disposed of on the 31st March 1888. The number of complaints undisposed of and pending from the previous year is not given. This should have been shewn, as well as the progress made in working off such arrears. In the absence of the necessary information on this point, it is not possible to say whether the progress for the year is satisfactory or otherwise; but an arrear of 1,503 complaints, or nearly 55 per cent. of the number lodged for the current year does not at first sight appear satisfactory, since it points to an accumulation of the arrears.

DUTY OF WATER.

19. The area under rabi cultivation in Orissa is so trifling that no satisfactory calculation can be made of the duty obtained from rabi irrigation. The duties obtained on the discharges of the various canals during the kharif season of four months will be found in table I E.

On every canal but one there is a diminution in the efficiency per cubic foot of water utilised—a diminution consequent on the low rainfall, which threw greater work on the canals. The exception is Range II of the High Level Canal, where in 1886-87 the area under irrigation being small and the water being wastefully used, an extremely low rate of duty was obtained. This canal has been since worked with greater economy, and now shows better results.

On the Kendraparah canal system the duty is 74·42 per cubic foot utilised, which compares with 95·87 last year. Of the canals composing this system, the Pattamoondee and Gobri canals are as yet insufficiently provided with distributaries, and therefore work to low duties. The duty of the Kendraparah canal itself is 93·77 acres.

On the Taldundah canal system the duty is 98·70, against 182·56 of the year previous. On the High Level Canal, Range I shows 77·72 against 169·28; Range II, 74·24 against 6·97; and Range III, 64·67 against 85·04.

CROP EXPERIMENTS.

20. Two hundred and fifty experiments on the outturn of crops were made, half on irrigated and half on unirrigated lands. The average outturn can be compared with the average of similar experiments made during the five years previous. On lands irrigated during 1887-88, the average weight of paddy per acre is 12·32 maunds and of straw 16·84 maunds, against 18·46 and 27 88, which are the respective averages of previous years. On

unirrigated lands the figures for the year are 9·38 maunds of paddy, against 14·00 maunds obtained in previous years, and 12·00 maunds of straw against an average of 21·70. The yield per acre both on irrigated and unirrigated lands was therefore exceptionally low, and the difference in favour of irrigation has also diminished both as regards paddy and straw. The Superintending Engineer observes that the reduction in the yield is chiefly apparent in the Brahmini-Byturni Division. The experiments made in the Acquapada-Jajepore Division show an increase under both heads, while in the Mahanuddee Division, though there is a small diminution under paddy, there is an increase under straw. The fact that out of 125 pairs of experiments 114 were made in the Brahmini-Byturni Division detracts from the value of the results thus obtained.

REVENUE ESTABLISHMENT.

21. The revenue establishment of the year cost Rs. 40,300. The following statement shows the details of the year under review with those of the three previous years:—

	1887-88.	1886-87.	1885-86.	1884-85
Establishment under Collector.	Rs.	Rs.	Rs.	Rs.
Superior officers and permanent and temporary establishment, including travelling allowance	28,749	26,007	24,028	23,961
Contingencies	2,218	2,625	1,948	1,890
Headmen's fees	2,208	1,209	1,229	3,468
Establishment under Executive Engineer.				
Permanent and temporary establishment ...	2,964	2,942	2,854	2,786
Contingencies	... .	......	... .	61
Water regulation establishment ..	4,161	4,222	4,215	4,198
Total ...	40,300	37,005	34,304	36,094
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department	1,46,039	1,05,775	1,16,940	59,111
Percentage ...	27·6	34 98	29·3	61·0

NAVIGATION

22. The management of the navigation of the canals and the collection of the revenue from this source is in the hands of the engineering staff. The receipts include tolls collected on boats and rafts using the canal, and the earnings of the transport service maintained by Government between Bhuddruck, on the High Level Canal, and Cuttack, a distance of 75 miles. The collections from either source for the last ten years are given below:—

	Tolls.	Transport service.	Total.
	Rs.	Rs.	Rs.
1878-79	57,042	.....	57,042
1879-80	62 389	35,686	98,075
1880-81 ...	41,297	30,105	71,402
1881-82	53,219	29,987	83,206
1882-83 ...	66,736	41,737	1,08,473
1883-84	61,602	48,550	1,10,152
1884-85	52,784	27,018	79,802
1885-86	64,093	19,919	84,012
1886-87	58,664	8,384	67,048
1887-88	66,628	4,376	71,004

TRAFFIC.

23. The following statement compares the traffic (excluding the transport service) of all the canals in Orissa during the year under review with that of the year preceding:—

CANALS.	Miles open.	Tollage.		Number of boats.		Tonnage.		Value of cargo.		Tollage per mile of canal.	
		1887-88.	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88	1886-87
	No.	Rs.	Rs.	No.	No.	Tons.	Tons.	Rs.	Rs.	Rs.	Rs.
Taldandah and Machgong canals	31	6,207	2,880	1,430	726	44,566	14,081	98,665	57,972	202·1	92·9
Kendraparah and Gobri canals (including extension) ..	75	46,659	41,786	5,011	5,959	83,718	66,139	36,11,925	30,80,180	622·1	557·1
High Level Canal, Range I	33	8,306	7,852	2,975	3,321	24,118	16,075	8,26,500	6,25,505	251·7	237·9
Ditto, ditto II	12½	4,085	3,788	1,995	2,902	17,378	19,410	3,71,492	3,32,112	326·8	303·0
Ditto, ditto III	19	1,311	2,358	673	1,404	6,216	11,793	1,23,511	1,60,416	69 0	124 1
Total ...	170½	66,628	58,664	12,084	14,311	175,996	128,398	50,32,093	42,56,185	390·7	344 1

In this statement, which for purposes of comparison is uniform with those of previous reports, empty boats are not counted in obtaining the figures of

the columns headed "Number of boats" and "Tonnage;" were empty boats included, the number would stand at 20,294,* and the tonnage at 17,643. Moreover, in calculating "tonnage," the rafts using the canals, the cubic contents of which in 1887-88 aggregated 415,844 cubic feet, are disregarded. But the earnings from rafts and their value are included in the calculations of "tollage" and "value of cargo."

The decrease in the number of boats is noticeable, occurring as it does alongside of increases both in tonnage and tollage. This can only be ascribed to the use of a larger class of boats. In the ton-mileage there are increases over 1886-87 of 24,123 ton-miles in the up traffic and 663,910 ton-miles in the down traffic, though the average distance over which the boats travelled was slightly less. Form IID is a return of the weight of goods carried. Decreases appear both under government and private traffic, alongside of increases in the tollage earnings of both classes. As, however, the weights of the cargoes are obtained from estimates of the toll-collectors, who, in their turn, are dependent on the statements of the boatmen, the figures in this return cannot be accepted as altogether trustworthy. The down traffic is this year in excess of the up traffic in consequence of increased exports of building materials and metals; imports of grain show an increase, while exports remain nearly steady; and under most other classes of goods there is a decrease in the volume carried.

The passenger traffic shows a decrease, which the Superintending Engineer thinks was probably due to the loss of two ocean passenger steamers running between Calcutta and Chandbally in connection with the canals.

TRANSPORT SERVICE

24. Three competing companies still maintain steamer services between Chandbally and Cuttack.

The transport service between Bhuddruck and Cuttack is still maintained by Government. During the greater portion of the year under review, it was chiefly carried on by accommodation boats, as the two steamers usually employed were laid up for repairs. On the year's working there was a loss of Rs. 5,712.

MISCELLANEOUS RECEIPTS

25. The miscellaneous receipts for the year under review are compared by sub-heads with those of the previous year in the following table:—

Source of Revenue.	Year in which received		Difference.	
	1887-88.	1886-87.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Plantations	1,131	1,885	......	754
Rent of lands	5,678	5,340	338	......
Canal produce	377	676	......	299
Rents of buildings	5,000	4,936	64	...
Sale of old materials	......	35	......	35
Fisheries	768	650	118	......
Sale of water	96	86	10	......
Miscellaneous	1,121	1,979	......	858
Total ...	14,171	15,587	530	1,946

Thus there is a decrease of Rs. 1,416, or 9·08 per cent., chiefly incurred under plantations, canal produce, sales of old materials, and miscellaneous. Small increases appear under rents of lands, sales of water, and fisheries.

REVENUE

26. The gross revenue for the last ten years under the three main heads is shown in the following statement:—

Years	Water-rates	Navigation.	Miscellaneous.	Total.
	Rs.	Rs.	Rs.	Rs.
1878-79	1,16 416	57,042	16,484	1,89,942
1879-80	1,57,747	98,075	23,365	2,79,187
1880-81	1,78,047	71,402	20,329	2,69,778
1881-82	1,24,290	83,206	15,655	2,23,151
1882-83	1,80,325	1,08,473	31,212	3,20,010
1883-84	1,11,856	1,10,152	15,860	2,37,868
1884-85	51,245	79,802	12,538	1,43,585
1885-86	1,06,842	84,012	16,496	2,07,350
1886-87	96,976	67,048	15,587	1,79,611
1887-88	1,37,869	71,004	14,171	2,23,044

* This figure was incorrectly given in the Administration Report as 24,892. The error first occurred in a monthly traffic statement

WORKING EXPENSES.

27. The working expenses (direct charges) of the Orissa Canals for the last ten years are shown in the following statement:—

PARTICULARS.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.
1.—Maintenance.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Works, including transport service	1,47,113	2,56,748	1,99,554	2,17,755	2,22,431	1,89,564	2,03,137	2,22,690	3,52,761	3,10,980
Establishment including direction and accounts.	39,073	51,018	45,896	50,108	51,160	43,600	50,958	51,199	81,117	98,153
Tools and plant ...	17,238	8,389	12,266	13,348	14,923	11,292	15,167	19,159	15,486	16,391
Compensation ..	..	..		.....	..	53	.....	... ..	..	...
Refunds of revenue	623	512	777	414	385	68	78	6	92	365
Direct expenditure in England.	...	1,265	1,262	1,930	2,061	......	.. ...	...	..	...
Total maintenance	2,04,047	3,20,832	2,59,755	2,83,553	2,90,960	2,44,577.	2,69,340	2,93,054	4,49,456	4,25,889
2.—Revenue management.										
Irrigation establishment	27,598	38,794	38,812	37,022	37,022	33,432	33,999	34,304	37,005	40,300
Navigation ditto	7,445	8,153	7,501	8,085	13,578	14,681	12,398	15,219	15,471	15,125
Total revenue management	35,043	46,947	46,313	45,107	50,580	48,113	46,397	49,523	52,476	55,425
Total working expenses	2,39,090	3,67,779	3,06,068	3,28,660	3,41,540	2,92,690*	3,15,737	3,42,577	5,01,932	4,81,314

* Exclusive of Rs. 427 paid in England.

The canals have therefore been worked at a loss of Rs. 2,58,270 on the direct charges alone. The corresponding deficits for the last six years are shown below:—

	Rs.
1882-83	21,530
1883-84	54,822
1884-85	1,72,152
1885-86	1,35,227
1886-87	3,22,321
1887-88	2,58,270

MAINTENANCE

28. The cost of maintenance for this and the two preceding years is distributed under the sub-heads as follows:—

	1887-88.	1886-87	1885-86.
	Rs.	Rs.	Rs.
Head-works	1,94,272	2,34,500	61,899
Main canals	76,219	83,735	1,19,601
Distributaries	25,594	21,458	24,521
Drainage and protective works	10,778	6,690	6,431
Total ...	3,06,863	3,46,383	2,12,452

HEAD WORKS

The expenditure on head-works is again abnormally high; but as much as Rs. 1,19,980 was the share incurred in 1887-88 of the cost of renewing those portions of the Naraje and Mahanuddee weirs which were carried away in 1886. The whole of the renewals have now been completed. Extensive repairs were also carried out on the Brahmini and Burrah weirs. Increased expenditure was incurred in metalling the protective embankments of the city of Cuttack, and on river improvements. The other head-works were maintained at a less cost than in the previous year.

The year was one of moderate floods in the Brahmini and Byturni rivers, where the highest floods (which took place in the month of July) were lower than those of the previous year. In the Mahanadi river, however, there were four floods in the months of July and August 1887, each of which was higher in the Katjooree at Cuttack than that which occurred in July 1886. This of course was due to the heavy rainfall already mentioned in paragraph 12. The weir, however, at the place where it had been breached in 1886 and reconstructed, stood the strain fairly well, the injury being confined to the apron immediately above the deep hole in the river bed, the remains of the breach of 1886.

MAIN AND BRANCH CANALS

29. The main canals and branches were maintained at a cost of Rs. 76,219, inclusive of Rs. 5,396 spent in repairing the breaches at the lower end of the Pattamoondee canal, where it is crossed by the Chota Brahmini river. In 1886-87 the cost of repairing breaches at the same place was Rs. 8,822, and in 1885-86 it was Rs. 10,376; and in the revenue reports of those years these sums were erroneously included in the maintenance of drainage and protective works. In the summary of expenditure on maintenance given above, and in the statement below, which gives the cost of maintenance of each main

and branch canal separately for four years, these special repairs are included in the maintenance of the Pattamoondee main canal, to which they are properly chargeable—

Canals.	Miles.	1887-88.		1886-87.		1885-86.		Miles.	1884-85.	
		Cost.	Per mile.	Cost.	Per mile.	Cost.	Per mile.		Cost.	Per mile.
	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	No.	Rs.	Rs.
Kendraparah	39	17,339	445	21,004	538	30,780	789	39	36,643	940
Ditto extension	15	2,385	159	2,741	182	2,996	200	15	4,458	297
Gobri ...	15	4,500	300	3,975	265	7,806	520	15	5,301	353
Do extension	6	4,047	674	3,599	600	9,101	1,517	...	...	...
Pattamoondee ...	47	11,347	241	14,062	299	18,629	396	47	7,334	156
Taldundah ...	27	8,993	333	9,971	369	14,213	526	27	10,487	388
Machgong ...	19	4,183	219	4,041	212	2,907	152	19	3,785	199
High Level, Range I	33	12,220	370	12,862	389	15,892	481	33	14,068	426
Ditto, do. II ...	12½	4,420	353	5,265	421	6,653	532	12½	3,275	262
Ditto, do. III ...	19	6,805	358	6,215	327	10,621	559	19	7,793	410
Total ...	232½	76,219	328	83,735	360	1,19,601	514	226½	93,143	411

As, with four exceptions, in each of which repairs of a special character were necessary, the upkeep of the several canals has cost less than in 1886-87, it is evident that economy has been successfully enforced throughout the circle, and the average mileage-rate of Rs. 328, to which the figures work out, may be taken as satisfactory. Of silt the quantity cleared by hand was 3,586,859 cubic feet, and the cost Rs. 9,927, giving an average rate of Rs. 2·77 per thousand cubic feet, against Rs. 2·90 in the year previous. The quantity dredged was 127,743 cubic feet and the cost Rs. 1,872, the average rate being Rs. 14·7, against Rs. 16·8.

DISTRIBUTARIES.

30. On distributaries the mileage-rate for repairs shows an increase.

	Miles.	1887-88.		1886-87.		1885-86.		Miles.	1884-85.	
		Cost.	Per mile.	Cost.	Per mile.	Cost.	Per mile.		Cost.	Per mile.
Distributaries.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	No.	Rs.	Rs
Kendrapara Canal System	331¾	13,510	40·48	11,073	33·17	13,156	39	330	13,298	40
Taldandah Canal ...	71½	2,242	31·35	2,232	31·21	2,297	32	71½	2,289	32
Machgong Canal ..	122¼	5,182	42·38	4,071	33·30	3,743	30	122¼	4,199	34
High Level Canal, Range I	117½	4,660	39·74	4,081	34·80	5,325	45	117½	3,143	27
Total ...	644½	25,594	39·69	21,457	33·27	24,521	38	641	22,929	35

DRAINAGE AND PROTECTIVE WORKS.

31. On drainage and protective works the increased cost of maintenance was incurred chiefly on the protective embankments of the High Level Canal, which required more extensive repairs than usual.

MIDNAPORE CANAL.

CAPITAL ACCOUNT

32. The Capital, Interest and Revenue Accounts of this canal are given below:—

I.—CAPITAL ACCOUNT.

Heads of Account.	Outlay during 1887-88.	Outlay to end of 1887-88.
Direct charges.	Rs.	Rs.
I.—Works ...	166	53,42,674
II.—Establishment ...	69	19,22,354
III.—Tools and plant ...	(—)3,049	8,93,918
IV.—Suspense accounts ...	4,396	4,363
V.—Loss by exchange ...	......	94,800
Total ...	1,582	82,94,109
VI.—*Less* receipts on capital account ...	229	30,764
Net total ...	1,353	82,63,345
Indirect charges.		
Capitalization of abatement of land revenue ...	72	88
Leave and pension allowances ...	10	1,83,570
Total ...	82	1,83,658

INTEREST

2.—INTEREST ACCOUNT.

			Rs.
Interest charges to end of 1886-87	...	...	47,56,636
Ditto for 1887-88	...	...	3,30,507
Total		...	50,87,143

REVENUE ACCOUNT.

3.—REVENUE ACCOUNT (Actuals).

	Expenditure.			Receipts.	
	During 1887-88.	To end of 1887-88.		During 1887-88.	To end of 1887-88.
	Rs.	Rs.		Rs.	Rs.
I.—*Maintenance and Repairs.*			Water-rates ...	90,837	14,52,158
Works (extensions and improvements) ...	......	40,738	Navigation ..	1,26,574	15,31,674
Repairs, including compensation ...	1,31,181	18,83,657	Miscellaneous ...	16,967	1,79,516
Establishment, including direction and accounts ...	46,467	4,46,870			
Tools and plant ...	31,409	2,77,089			
Total ...	2,09,057	26,48,354			
II.—*Revenue Management.*					
Irrigation establishment	22,797	3,34,515			
Navigation ditto	7,759	1,27,188			
Total ...	30,556	4,61,703			
III.—*Refunds of Revenue*	453	837			
Total working expenses	2,40,066	31,10,894			
Profit	(—)5,688	52,454			
Total ...	2,34,378	31,63,348	Total ...	2,34,378	31,63,348

There was an actual capital outlay of Rs. 1,353 only during the year, the total to end of the year being Rs. 82,63,345, against Rs. 83,16,768, amount of estimate sanctioned by the Secretary of State.

As the period allowed for the execution of the works expired on the 31st March 1888, an application has been made to the Government of India for a renewal of the sanction on the grounds that certain works under the heads 'distributaries' and 'drainage works' are still necessary for the completion of the system as originally projected, and that additions to the dredging plant are required to ensure the proper maintenance of the canal for purposes of navigation and irrigation. A revised estimate, of which the proposed expenditure will absorb the whole of the balance of the original estimate, has been submitted for sanction with the application.

EARNINGS.

33. The revenue account calculated on "earnings" of the year and expenditure (direct charges only) is given below :—

EXPENDITURE.	Amount.	EARNINGS.	Amount.
I.—Maintenance and Repairs.	Rs.		Rs.
Works (extensions and improvements)	......	Water-rates	1,02,532
Repairs, including compensation ...	1,31,181	Navigation	1,26,574
Establishment, including direction and accounts	46,467	Miscellaneous ...	16,967
Tools and plant	31,409		
Total ...	2,09,057		
II.—Revenue Management.			
Irrigation establishment	22,797		
Navigation ditto	7,759		
Total ...	30,556		
III.—Refunds of Revenue ...	453		
Total working expenses ...	2,40,066		
Profit	6,007		
Total ...	2,46,073	Total ...	2,46,073

The water-rates on lands irrigated during the year are due within the year. The amount of water-rates shown as earned includes arrear assessments for former years.

RAINFALL.

34. The following table shows the rainfall for the year 1887-88 and the four previous years :—

STATIONS.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	Average of 18 years previous to 1887-88
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches
Midnapore ...	55 38	49 39	76 20	57 19	44·07	56·00
Panchkoorah ...	56 21	50 56	86 03	48 84	51·92	56 27
Contai ...	54 41	48 24	76 45	77 30	70 31	68 97

Of the three stations at which gauge readings are observed, Midnapore and Panchkoorah only are within the irrigated tract. The season was one of average rainfall, fairly distributed.

LEASES AND IRRIGATION

35. The area leased and irrigated amounted to 65,864 acres, of which 64,689 acres were five-year kharif leases. Of five-year leases for 69,762 acres, which had been current in 1886-87, leases for 20,285 acres expired on the 31st March 1887, while the renewals during 1887-88 amounted to only 15,212 acres. In addition, one-year leases for 1,175 acres were contracted, which were almost entirely for the irrigation of *boro* rice during the winter months. Owing to the insufficiency of the supply available, irrigation from the Midnapore canal is as a rule confined to the kharif season. As, however, during the year under report, the kharif crops over a portion of the country commanded by the Panchkoorah weir were destroyed by floods, special arrangements were made for the irrigation of boro rice subsequently planted on the fields which had been inundated, and 1,162 acres were leased for one year in this way.

The total area under five-years' leases may be classified thus :—

	Acres.
Leases which expired on the 31st March 1888	32,875
Ditto will expire ditto 1889	12,530
Ditto ditto ditto 1890	2,276
Ditto ditto ditto 1891	1,796
Ditto ditto ditto 1892	15,212
Total ...	64,689

Of the 65,804 acres leased, 59,362 acres were irrigated from the Midnapore weir, 5,955 from the Panchkoorah weir, and 547 from the tidal reaches. Similar information for three years is supplied in the following table, where the percentage which the area irrigated in each year bears to that commanded and provided with distributaries is shown :—

Particulars.	Totals provided for in the revised estimate	Midnapore Weir, Ranges IV and V.			Panchkoorah Weir, Range III, and Tidal Reaches, Ranges I and II.			Total.		
		1887-88.	1886-87.	1885-86.	1887-88.	1886-87.	1885-86.	1887-88.	1886-87.	1885-86.
Length of distributaries and branch canals ... Miles	299 12	229 94	229 94	229·94	53·25	53·25	53·25	283·19	283·19	283·19
Area provided with distributaries .. ... Acres	1 25,000	100,000	100,000	100,000	25,000	25,000	25,000	125,000	125,000	125,000
Area irrigated ,,	...	59,362	62,225	60,580	6,502	7,537	10,024	65,864	69,762	70,604
Percentage of area irrigated to that commanded	.. ...	59 36	62 22	60·58	26 01	30·15	40·10	52·64	55·81	56 48

On the Midnapore canal leases are given by the Deputy Revenue Superintendent, acting under the Collector of the district. Regarding the steady decrease in the irrigation, the Deputy Superintendent reports that the reason for it is alleged by the ryots themselves to be "insufficient, irregular, and untimely supply of water." That there is foundation for this charge is incontestible ; for, since the catchment basin of the Cossye is small in extent, a failure in the local rainfall is often followed by failure in the river supply, and water is least plentiful when most required. Thus in October 1887, the rainfall being less than 3 inches, a sharp demand sprang up, to meet which some 1,400 cubic feet of water per second—that being the greatest discharge which can be passed through the head sluice at Midnapore—might have been supplied (had it been available) with advantage. But it appears from the returns submitted by the Superintending Engineer that during October the average discharge of the Cossye was only 770 cubic feet per second, and that it fell as low as 165 cubic feet per second.

Another difficulty which is now being sensibly felt, and on which stress is laid in the report of the Collector, arises from the absence of village channels. In the earlier years of the Midnapore canal, irrigation was successfully conducted without village channels, and in the rules passed by the Lieutenant-Governor in 1884 there is no clause enforcing that the construction of village channels must precede the supply of water. A system of field-to-field irrigation has been practised, and has worked with success so long as nearly the whole of the irrigable area was under lease, but is now found to be attended with trouble and waste, especially in cases where villages near the canal, over whose lands water must pass in order to irrigate the lands of more distant villages, refuse to renew their leases. The same difficulty is felt in Orissa, where it has been found impossible, without very serious loss of revenue, to insist on the observance of the rules regarding village channels. A partial remedy would be found in making all leases within the area irrigable from any single distributary terminable on the same date ; and this course has been proposed by the Deputy Revenue Superintendent of Orissa. The matter is under consideration.

Complaint

36. 841 irrigation complaints were received by the Deputy Revenue Superintendent, of which 757 were disposed of. 533 were objections to certificates issued in cases of surreptitious irrigation, leases being eventually executed in 166 of these. 472 complaints were decided against the petitioners, and 285 were either allowed or compromised. The number of complaints undisposed of at the end of the previous year is not given, and consequently the progress made cannot be clearly shewn.

Duty of w

37. The kharif duties obtained were 116 acres per cubic foot for the area under Midnapore weir, and 184 acres for that under Panchkoorah weir. As in the case of the Orissa canals, these duties have been calculated on a four-months' base ; that is, on the average quantity supplied during the period commencing on July 1st and ending on October 31st.

ASSESSMENTS AND COLLECTIONS.

38. The following comparative statement shows the balances, assessments and recoveries of water-rates on the Midnapore canal since the year 1883-84 :—

Year.	Amount outstanding at commencement of year.	Amount falling due during the year.	Total for recovery.	Cash realization.	Remitted or written off.	Balance at the end of the year.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1883-84	1,42,476	1,47 992	2,90,468	1,31,000	14,777	1,44,691
1884-85	1,44,691	1,22 321	2 67,012	1,16,807	38,993	1,11,212
1885-86	1,11,212	1,10,868	2,22,080	1,08,709	43,399	69,972
1886-87	69,972	1,06,750	1 76,722	1,08,834	17,139	50,749
1887-88	50,749	1,02,532	1,53,281	90,837	5,951	56,493

The demand for the year was less by Rs. 23,441 and the collections by Rs. 17,997 than in the previous year. The percentage of the collections was 59·3 against 61·01. The decrease in the amount treated as irrecoverable is satisfactory.

The year closed with an outstanding balance in the books of the Revenue Deputy Superintendent for irrigation and miscellaneous revenue, regarding which that officer writes as follows :—

"Out of the total outstanding balance of Rs. 61,997, Rs. 7,079 are for previous years. Of this sum Rs. 2,384 being irrecoverable on account of death, abscondings and poverty, &c., has been recommended for remission, and when sanction to this remission is obtained, all old arrears up to 1885-86 will be finally and fully adjusted, and the net balance now outstanding will be reduced by that amount. The arrears of 1886-87 and 1887-88 alone will thus remain to be adjusted, and scarcely any perceptible amount of them will be allowed to to remain unrealized till next year. From this it will be seen that the struggle so long going on about the final and complete adjustment of the very heavy old arrears is almost at an end. For the future the rule ought to be never to allow arrears to accumulate for more than two years, and this will be carefully borne in mind.''

MISCELLANEOUS RECEIPTS.

39. The miscellaneous receipts were Rs. 16,907, of which Rs. 15,308 were collected by the Deputy Revenue Superintendent. The miscellaneous revenue realised by the Executive Engineer was Rs. 1,629, the chief item being rents of buildings.

CERTIFICATES.

40. Of the Rs. 1,06,145 of miscellaneous and irrigation revenue realized by the Revenue Department, Rs. 48,529 was for arrears and Rs. 57,616 for the current demand. The latter amount was realised without the issue of a single certificate, but no less than 16,052 certificates were filed on account of the arrears. Including certificate cases pending, the total number of cases was 18,434, of which 13,124, or 71·2 per cent., were disposed of. Out of the number disposed of, 1,907, or less than 15 per cent., were struck off, in all other cases the sums due being realized. In only 14 cases, or 0·1 per cent., was property, moveable or immoveable, sold; and in 218 cases, or less than 2 per cent., realization was effected on issue of warrants. The number of cases pending at the close of the years 1886-87 and 1887-88, respectively, were 2,382 and 5,310, and of this latter number 2,321 cases were pending for more than 6 months—a not very satisfactory state of affairs.

REVENUE ESTABLISHMENT

41. The cost of revenue establishment was Rs. 21,600, against Rs. 23,064 in the year previous. The percentage of cost on the total collections is 20·34 against 18·63.

NAVIGATION

42. The receipts under navigation increased from Rs. 1,09,693, at which they stood in 1886 87, to Rs. 1,26,574. The usual particulars regarding the traffic carried during the last ten years in vessels other than those of the Calcutta Steam Navigation Company are appended.

COMPARISON OF TRAFFIC.

Description.		1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.
Miles open	No.	53	53	53	53	53	53	53	53	53	53
Toll collections .	Rs.	77,340	91,861	77,143	98,060	1,06,157	1,08,931	1,19,797	1,25,331	(a)1,01,054	(c) 1,08,460
Rate of toll per mile	,,	1,459	1,733	1,455	1,850	2,002	2,055	2,260	2,364	1,906	2,046
Number of boats ...	No.	48,224	52 044	45,461	51,408	52,554	52,069	47,651	41,240	45,709	49,023
Tonnage of boats ..	Tons	290,488	320,927	292,452	332,325	360,073	382,979	412,379	372,608	387,440	409,866
Passengers carried ..	No.	128,098	180,294	166,238	202,029	181,251	170,745	......	......	(b)2,08,582	(d) 160,507
Estimated value of cargo, including rafts .	Rs.	1,50,51,350	1,59,41,496	1,43,15,608	1,47,79,798	1,60,43,032	1,70,53,401	1,57,52,097	1,27,22,175	97,25,587	1,18,44,844

(a) Exclusive of Rs. 8,639, tolls of Calcutta Steam Navigation Company.
(b) By private boats 112,139 and by the Company's steamers 96,443.
(c) Exclusive of Rs. 18,114, tolls of Calcutta Steam Navigation Company.
(d) By private boats 73,784 and by the Company's steamers 86,783.

For the purpose of comparison with previous years, empty boats are taken into account in calculating the number and tonnage of boats as given in this statement, while in the figures given in statement ID in the Statistical Tables only boats actually carrying cargo or passengers are included. Cargo-laden boats show an increase of 1,049 in number and 12,216 in tonnage; passenger boats a decrease of 2,718 in number and 18,414 in tonnage. It appears probable that the passenger traffic is being absorbed by the steamers, and that the falling off in the steamer passenger traffic shown above is due to faulty registration, the numbers being merely recorded from the statements of the "serangs." The improvement in the receipts was chiefly caused by a revival of the rice export trade.

The tolls paid by the steamers of the Calcutta Steam Navigation Company increased from Rs. 8,639 to Rs. 18,114. This is partly due to the withdrawal of the concession of consolidated tolls, the steamers this year paying on the tonnage of their vessels with the authorized allowance of one-half loss for a daily service.

REVENUE AND WORKING EXPENSES.

43. The statements below show the receipts on revenue account and working expenses of the Midnapore canal since 1878-79. The figures are for direct charges only:—

REVENUE RECEIPTS.

YEARS.	Water-rates.	Navigation.	Miscellaneous.	Total
	Rs	Rs.	Rs.	Rs.
1878-79 ...	85,014	77,340	8,356	1,70,710
1879-80	1,30 140	1,05,518	11,567	2,47,225
1880-81	1,12,960	93,099	10,407	2,16,466
1881-82	1,18,588	1,20,706	10,780	2,50,074
1882-83	1,04,060	1,46,922	17,028	2,68,010
1883-84	1,31,000	1,20 580	12,996	2,64,576
1884-85 ...	1 16,807	1,28,747	12,401	2,57,955
1885-86	1,08,709	1,37,578	16,197	2,62,484
1886-87	1,08,834	1,09,693	15,658	2,34,185
1887-88	90,837	1,26,574	16,967	2,34,378

WORKING EXPENSES.

PARTICULARS.	1878-79.	1879-80	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88
Works, Maintenance and Repairs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Works and repairs .	1,09,211	94,488	1,21,607	1,35,114	1,40,067	1,27,628	1,34,036	1,24,857	1,37,752	1,31,181
Compensation	...	..	.	..		30	..		.	
Establishment, including direction and accounts	28,513	19,162	26,100	31,022	32,218	29,342	3[illegible],822	28,651	31,677	46,467
Tools and plant	13,083	17,036	17,975	36,448	31,354	31,2[illegible]9	26,591	25,952	25,003	31,1[illegible]9
Refunds of revenue ..	..				.	44	112		211	453
Total ...	1,50,807	1,30,686	1,65,682	2,02,584	2,0[illegible],039	1,88,273	1,91,561	1,79,460	1,94,643	2,09,510
Revenue Management.										
Irrigation establishment	14,802	16,377	16,101	18,371	20,337	19,862	24,004	22,790	24,154	22 797
Navigation ditto	7,227	7,340	7,437	7,519	14,101	7,511	7,609	7,6[illegible]0	7,575	7,759
Total ...	22,029	23,717	23,538	25,890	34,438	27,373	31,613	30 400	31,729	30,556
Total working expenses	1,72,836	1,54,403	1,89,220	2,28,474	2,38,077	2,15,646	2,23,174	2,09,860	2,26 372	2,40,066

The actual cost of repairs was less than in the previous year, and is thus distributed by sub-heads:—

	1887-88.	1886-87.
	Rs.	Rs.
Head works, including buildings	11,667	9,588
Main canal and branches	89,238	1,03,489
Distributaries	20,687	17,617
Drainage and protective works	1,990	593
Steamers	7,599	6,465
Total ...	1,31,181	1,37,752

HEAD WORKS.

The increase in the expenditure on head works was incurred chiefly in clearing silt from lock entrances. It is the opinion of the Superintending Engineer that the moveable break-waters constructed near the head locks at Midnapore and Panchkoorah, in order to aid boats in entering the canal during floods, increase the accumulation of silt in lock channels. The expenditure on weirs was Rs. 1·48 per foot run of the Midnapore weir and Rs. 5·30 of the Panchkoorah weir, against Rs. 1·60 and Rs. 3·92, respectively, the year previous. Extensive repairs were required to the shutters of the Panchkoorah weir.

MAIN CANAL.

44. There is a decrease of Rs. 9,639 in the repairs of Main Canal and head works taken together, and an increase of Rs. 3,070 in those of distributaries. Mileage rates are worked out below:—

Year.	Main Canal and Head Works.			Distributaries.		
	Length of canal, exclusive of river crossings.	Total cost of work.	Rate per mile.	Length of distributary channels.	Total cost of work.	Rate per mile.
	Miles.	Rs.	Rs.	Miles.	Rs.	Rs
1880-81	48	80,993	1,687	267	20,140	75
1881-82	48	1,03,910	2,164	277	11,854	43
1882-83	48	1,01,821	2,121	277	20,407	73
1883-84	48	1,06,425	2,216	277	21,195	76
1884-85	48	1,15,171	2,399	277	18,865	68
1885-86	48	1,10,350	2,299	277	14,424	52
1886-87	48	1,20,135	2,503	283	17,617	63
1887-88	48	1,10,494	2,301	283	20,687	74

The excessively high maintenance charges of this canal are incurred chiefly on earthwork, amounting during the year to Rs. 59,161, and on navigation works, amounting to Rs. 19,103. Of earthwork charges, Rs. 43,660 was spent in clearing 6,723,165 cubic feet of silt, of which about 37 lakhs of cubic feet were cleared by the dredgers at an average rate of Rs. 7·63 per thousand, and 30 lakhs by hand or by excavation at an average rate of Rs. 5·10. Dredging was carried out mainly at the lock entrances, while of the silt cleared by hand over 26 lakhs of cubic feet were taken out of the first reach of the canal, which was closed for silt clearance during April.

DISTRIBUTARIES.

On distributaries, of Rs. 20,687 spent on repairs, Rs. 8,699 is the cost of removing 5,680,820 cubic feet of silt from the channels and Rs. 6,209 chiefly in adding earth to banks. The increase in the mileage rate of maintenance is mainly due to these causes. The distributaries suffered greatly from floods during this year.

REPAIRS TO DREDGERS.

There was an increase of Rs. 6,406 in the charges for tools and plant. The large expenditure on repairs was entirely on the dredging plant, which in one way or other gave a good deal of trouble.

45. On the year's working, including indirect charges, there is a loss of Rs. 16,471. The receipts and expenditure of five years are tabulated below:—

Year.	Receipts.	Expenditure.	Net revenue.
	Rs.	Rs.	Rs.
1883-84	2,64,576	2,23,586	(+)40,990
1884-85	2,57,955	2,31,915	(+)26,040
1885-86	2,62,484	2,18,127	(+)44,357
1886-87	2,34,185	2,35,249	(—)1,064
1887-88	2,34,378	2,50,849	(—)16,471

The unfavourable result for 1887-88 is brought about by the reduction, on the revenue side of the account, in the receipts from water-rates; while the expenditure has increased on tools and plant and in the share of establishment charges allotted under the new system of accounts to irrigation works in this province.

HIDGELLEE TIDAL CANAL.

46. The Capital, Interest, and Revenue Accounts of this canal are given below:— CAPITAL ACCOUNT

1.—CAPITAL ACCOUNT.

Heads of account.	During 1887-88.	To end of 1887-88.
		Rs.
DIRECT CHARGES.		
I.—Works	......	12,66,239
II.—Establishment	......	4,49,790
III.—Tools and plant	......	57,585
IV.—Suspense accounts	......	......
V.—Loss by exchange	......	22,790
Total ...	......	17,96,404
VI.—*Less* receipts on capital account ...	......	915
Net total ...	......	17,95,489
INDIRECT CHARGES.		
Capitalization of abatement of land revenue ..	......	11,210
Leave and pension allowances	......	33,597
Total ...	......	44,807

2.—INTEREST ACCOUNT.

INTEREST ACCOUNT.

	Rs.
Interest charges to end of 1886-87	11,87,143
Ditto for 1887-88	71,820
Total ...	12,58,963

3.—REVENUE ACCOUNT (ACTUALS).

REVENUE ACCOUNT.

	Expenditure— During 1887-88.	Expenditure— To end of 1887-88.		Receipts— During 1887-88.	Receipts— To end of 1887-88.
I.—Works, Maintenance, and Repairs.	Rs.	Rs.		Rs.	Rs.
Works (extensions and improvements) ..	.....	3,033	Water-rates ...	......	2,611
Maintenance and repairs	47,928	4,19,696	Navigation ...	40,406	7,49,725
			Miscellaneous ...	1,452	18,117
Establishment, including direction and accounts ...	11,855	97,826			
Tools and plant ...	2,105	21,603			
Total ...	61,888	5,42,158			
II.—Revenue Management.					
Navigation establishment	3,007	49,855			
III.—Refunds of revenue	......	910			
Total working expenses ...	64,895	5,92,923			
Profit	(—)23,037	1,77,530			
Total ...	41,858	7,70,453	Total ...	41,858	7,70,453

For thirteen years during which the canal has been in full work the receipts have averaged Rs. 49,189 and the working expenses Rs. 35,549. The maintenance charges have been unduly swollen by the necessity of periodically clearing away the accumulations of silt, while, as the canals have to be closed for the purpose, the receipts too suffer at the same time. Chiefly on account of this difficulty an estimate for remodelling the Hidgellee Tidal Canal has been prepared, in which provision is made for the deepening of the present channels, for twin supply channels and an iron supply pipe, and for a new lock. These proposals, the cost of which is estimated at Rs. 7,69,150, have lately been forwarded for the consideration of the Government of India.

NAVIGATION.

47. The table below gives the usual particulars regarding the traffic since the year 1878-79:—

COMPARISON OF TRAFFIC.

Particulars.		1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.
Miles open	No.	29	29	29	29	29	29	29	29	29	29
Toll collections ...	Rs.	59,723	44,918	53,338	45,848	43,694	62,317	41,382	52,143	51,904	40,406
Rate of toll per mile ..	"	2059·41	1548·89	1839·20	1581·00	1510·00	2148·00	1427·00	1798·03	1789·79	1303·81
Number of boats ...	No.	24,969	16,811	21,783	20,057	17,445	22,728	17,660	19,316	17,542	13,503
Tonnage of boats ..	Tons.	164,688	120,021	152,781	133,020	132,884	196,764	145,424	163,535	140,747	124,903
Passengers carried	No.	3,623	3,061	3,531	3,286	3,510	......	.. .	. ..	8,569	11,951
Estimated value of cargo, including rafts ..	Rs.	41,55,353	25,86,031	23,34,731	21,10,855	23,83,244	36,42,029	30,06,852	32,74,961	31,48,826	26,13,351

The Superintending Engineer reports that the falling off in the receipts is attributable to the closure of the canal from January to March 1888 for the clearance of the heavy deposit of silt, and will recur until the remodelling of the canal is carried out. A considerable development of the traffic may be hoped for now that the Orissa coast canal has been opened throughout its length.

MISCELLANEOUS.

48. The only receipts other than tolls are miscellaneous. There is a decrease in these of Rs. 1,048, occurring chiefly in fisheries and rents of buildings.

REVENUE RECEIPTS AND WORKING EXPENSES.

49. The following table shows the receipts on revenue account and working expenses of the canal for the last ten years. The figures are for direct charges only:—

REVENUE RECEIPTS.

Year.	Navigation.	Miscellaneous.	Total.	Working expenses.	Net revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.
1878-79	59,723	1,070	60,793	23,180	37,613
1879-80	44,918	863	45,781	42,284	3,497
1880-81	53,338	1,149	54,487	25,590	28,897
1881-82	45,848	1,446	47,294	28,678	18,616
1882-83	43,694	1,338	45,032	40,570	4,462
1883-84 ...	62,317	1,273	63,590	46,581	17,009
1884-85	41,382	2,125	43,507	36,886	6,621
1885-86 ...	52,143	312	52,455	48,609	3,846
1886-87	51,904	2,500	54,404	22,835	31,569
1887-88	40,406	1,452	41,858	64,895	(—)23,037

WORKING EXPENSES.

Particulars.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Maintenance and repairs ...	16,599	30,607	18,901	19,478	20,460	32,994	26,862	34,099	11,988	47,928
Establishment	3,854	8,794	2,289	4,497	6,775	7,588	6,178	7,843	2,756	11,855
Tools and plant	. ..	. .	1,444	1,834	1,362	2,784	292	3,524	4,155	2,105
Total ...	20,453	39,401	22,634	25,809	37,597	43,366	33,332	45,466	18,899	61,888
Navigation establishment ..	2,727	2,883	2,956	2,869	2,973	3,215	3,554	3,143	3,026	3,007
Refunds of revenue	.....	......	......	......	....	.....	......	. ....	910	......
Total working expenses .	23,180	42,284	25,590	28,678	40,570	46,581	36,886	48,609	22,835	64,895

The silt clearance of this canal, which had been postponed, as remarked in last year's note, had at length to be carried out, and to this must be ascribed the very large increase in the maintenance charges. More than 156 lakhs cubic feet of silt were excavated during the year at a cost of Rs. 30,491, Rs. 38,000 remaining to be paid in 1888-89. The expenditure on locks and buildings was also considerably in excess of that of the previous year, advantage being taken of the closure to put new mitres and cills to most of the locks, and do general repairs to gates and gearing. The establishment, which is charged proportionately to the expenditure, increased with the latter, the increase being still further enhanced under the new method of distributing the establishment charges over the various branches. The unusual appearance, therefore, of a large deficit this year is thus fully accounted for, and it is probable that another deficit will be shown in the current year on account of the charges for silt clearance in that year.

SONE CANALS.

50. The Capital, Interest and Revenue Accounts of these canals are given below:—

1.—CAPITAL ACCOUNT.

CAPITAL ACCOUNT

Heads of Account.	Outlay during 1887-88.	Outlay to end of 1887-88.
Direct Charges.	Rs.	Rs.
I.—Works ...	87,730	1,80,63,306
II.—Establishment ...	19,383	50,61,236
III.—Tools and plant ...	803	20,91,079
IV.—Suspense accounts ...	33,431	1,75,571
V.—Loss by exchange ...	......	52,240
Total ...	1,41,347	2,54,43,432
VI.—*Less* receipts on capital account ...	3,175	3,07,193
Net total ...	1,38,172	2,51,36,239
Indirect Charges.		
Capitalization of abatement of land revenue ...	203	37,834
Leave and pension allowances ...	2,714	8,57,828
Total indirect charges ...	2,917	8,95,662

2.—INTEREST ACCOUNT.

INTEREST ACCOUNT

		Rs.
Interest charges to end of 1886-87	...	1,15,21,202
Ditto for 1887-88	...	10,02,686
	Total ...	1,25,23,888

REVENUE ACCOUNT.

8.—REVENUE ACCOUNT (ACTUALS).

	Expenditure. During 1887-88.	Expenditure. To end of 1887-88.		Receipts. During 1887-88.	Receipts. To end of 1887-88.
	Rs.	Rs.		Rs.	Rs.
I.—Maintenance and Repairs.					
Works (extensions and improvements) ...	5,532	5,532	Water-rates ...	5,19,586	61,15,9"4
Repairs	3,08,448	32,15,616	Navigation ...	55,904	6,19,638
Compensation ...	......	2,463	Miscellaneous	28,459	4,09,962
Establishment, including direction and accounts	2,10,227	9,42,916			
Tools and plant ...	28,221	1,74,672			
Total ...	5,52,428	43,41,199			
II.—Revenue management.					
Irrigation establishment	1,35,243	11,65,599			
Navigation ditto ...	14,308	1,55,964			
Total ...	1,49,551	13,21,533			
III.—Refunds of revenue ...	15,331	61,783			
Total working expenses	7,17,310	57,24,545			
Profit	(—)1,13,361	14,20,959			
Total ...	6,03,949	71,45,504	Total ...	6,03,949	71,45,504

EARNINGS

51. The income calculated on "earnings" of the year and expenditure (direct charges only) are shown below:—

Expenditure.	Amount	Earnings.	Amount.
I.—Maintenance and Repairs.	Rs.		Rs
Works (extensions and improvements)	5,532	Water-rates	7,25,810
Repairs	3,08,448	Navigation	55,904
Establishment, including direction and accounts ...	2,10,227	Miscellaneous	28,459
Tools and plant	28,221		
Total ...	5,52,428		
II.—Revenue management.			
Irrigation establishment ...	1,35,243		
Navigation ditto ...	14,308		
Total ...	1,49,551		
III.—Refunds of Revenue ...	15,331		
Total working expenses ...	7,17,310		
Profit	92,863		
Total ...	8,10,173	Total ...	8,10,173

The water-rates shown as earned are the assessments of the year under review, which reached the Collectors within the year, as given in the memorandum of the Examiner of Accounts and quoted in the Superintending Engineer's report.

52. The following table shows the lengths of canals and distributaries open and the areas commanded and irrigable:—

LENGTHS OF CANALS AND DISTRIBUTARIES.

DIVISION.	Navigable canals.	Branch canals.	Distributaries.	Gross area under command.	Maximum discharge of canal.	AREA WHICH CAN BE IRRIGATED.		
						Kharif.	Rabi.	Total.
	Miles.	Miles.	Miles.	Acres.	Cubic feet per second.	Acres.	Acres.	Acres.
Eastern Sone	86¼	......	358	406,155	1,613	129,040	180,000	309,040
Arrah	70	71¼	467¼	618,354	} 4,342	347,360	360,000	707,360
Buxar	62½	77½	341½	704,000				
Total ...	218¾	148¾	1,166¾	1,728,509	5,955	476,400	540,000	1,016,400

The above are the revised figures furnished by the Superintending Engineer. There is a small apparent decrease of a quarter of a mile in the length of navigable canals, the length of those in the Buxar Division having been over-stated by that amount in last year's report. In the length of distributaries an addition of 8¼ miles has been carried out during the year. The return does not include 13¼ miles of village channels which are maintained by Government in the Buxar Division.

There is no change in the areas commanded and irrigable, the methods of calculating which for the purposes of this return were described in last year's report.

53. The following table shows the progress made with village channels and outlets:—

VILLAGE CHANNELS AND OUTLETS.

DIVISION.	Total length of village channels completed.	Total number of temporary and permanent outlets.	Number of permanent outlets
	Miles.	No.	No.
Eastern Sone Division	245½	2,394	111
Arrah Division	768	2,445	555
Buxar "	511½	1,160	162
Total 1887-88 ...	1,525	5,999	828
Total 1886-87 ...	1,518	5,652	654

Thus there is an addition of only 7 miles, all of which were constructed by Government agency, to the length of village channels. Of all the village channels now in use, 185 miles have been so constructed, and 1,340 have been constructed by villagers. Considerable progress has been made in all divisions in the construction of permanent outlets In the Eastern Sone and Arrah Divisions there is an increase in the total number of outlets, due to increase in irrigation, and there is a slight falling off in the area per outlet In the Buxar Division, on the other hand, numerous superfluous outlets have been removed, and, with an increase in the area irrigated, the area per outlet has risen from 52 acres to 93 acres.

RAINFALL

54. The statements below furnish the rainfall statistics of the Sone Canal system from the year 1883-84, and the distribution by canal divisions for four years:—

		Average of 22 Stations.				
		1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
		Inches.	Inches.	Inches.	Inches.	Inches.
Kharif season ...	August	9·49	11·73	16 69	9 09	4·23
	September	5·24	12·51	10·57	5·41	5·11
	October	4·18	8·33	0·34	3 50	0·73
	Total	18 90	32·57	27 60	18·00	10 07
Rabi season ...	November	......	0·23	......	... ..	......
	December	......	0·22	2·45	......	......
	January	1·09	1·47	0·10	0·55	......
	February	.. ...	......	0 11	0 03	......
	Total	1·09	1·92	2·66	0 58	......
	Whole year	40·31	59 34	41 99	30 29	35·18

Years.	Eastern Sone Division.			Arrah Division.			Buxar Division.		
	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.
	Inches	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
1887-88	14·35	0 92	38·11	20 59	1·08	43·57	20·43	1·22	38·18
1886-87	34 60	1·73	62·34	36·40	1·83	62·49	25·48	1·85	51·06
1885-86 ..	30·75	2 15	46 54	27·02	2·84	44 68	27 82	2·92	42 29
1884-85	17 11	0·40	30 57	18 84	0·54	31·62	20·96	0·69	31·87

The Superintending Engineer reports:—"The rainfall during the year (40·18 inches) for the area commanded by the Sone Canals was slightly under the average (40·89 inches), and very considerably below that of the year preceding (58·84 inches). In the kharif season the difference is marked—18·59 against 32·43 inches. There was an altogether unusual fall of rain in May, averaging 7·40 inches for the different observing stations. The rainfall in September and October was deficient. There was practically no rain from the 20th September to the 12th October; and as this period includes what is known as the "Hathia Nachattar," when the rice-fields require a plentiful supply of water, the deficiency then was of great importance. The rain which fell from the 13th to the 15th of October was of great importance to the rabi crops, though not technically included in the rabi season."

AREA LEASED AND IRRIGATED.

55. The following statement shows the area leased and irrigated during the last four years:—

Description.	1887-88.		1886-87.		1885-86.		1884-85.	
	Leased.	Irrigated.	Leased	Irrigated.	Leased.	Irrigated.	Leased.	Irrigated.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Five-year leases ...	210,535	210,164	194,419	194,550	173,829	179,784	145,094	151,510
Annual leases—								
Kharif	43,038	57,595	27,733	30,082	62,107	89,792	98,885	131,372
Rabi	16,738	27,501	10,639	16,062	31,764	51,610	38,935	77,558
Sugarcane	3,891	6,265	5,402	11,62[illegible]	5,186	10,527	4,293	9,262
Hot weather	9,313	13,855	8,619	15,278	6,117	10,857	738	959
Total annual leases ..	72,980	105,216	52,393	73,648	105,174	152,786	142,351	219,151
Grand Total ..	283,515	315,380	246,812	268,204	279,003	332,570	287,445	370,661
Percentage of leased to irrigated area	89·89		92·02		83·89		77·55	

Thus there is a marked increase over 1886-87 of irrigation, both under five-year and yearly leases, though the gross area falls below that returned for 1885-86 and considerably below that for 1884-85. Regarding the continued growth of the area leased for five years, it is stated that the limit of such leases has, so far as the Arrah Division is concerned, been nearly reached, as there is not much land remaining outside the leases which is suitable for constant irrigation.

Out of the 210,164 acres irrigated under five-years lease, it is estimated that 162,833 acres, or about 77·5 per cent., were cultivated under kharif, 28,589 acres, or 13·6 per cent., under rabi, and 18,742 acres, or 8·9 per cent., under sugarcane. These proportions have to a large extent been determined by actual observation,* and may be taken as practically accurate. They are adopted in the following statement, where the entire irrigation of three years is classified by crops and compared:—

* In the Arrah Division, on practically long lease for the irrigation of kharif crops, only actual observations are available for 55,580 acres, from which the percentages were found to be 83·6 rice, 7·5 rabi, and 9·0 sugarcane.

	1887-88.	1886-87.	Difference.	1885-86.
	Acres.	Acres.	Acres.	Acres.
Kharif	220,428	177,510	+42,918	217,072
Rabi	56,090	45,361	+10,729	77,079
Sugarcane	25,007	30,055	—5,048	27,562
Hot weather	13,855	15,278	—1,423	10,857
Total ...	315,380	268,204	+47,176	332,570

In this statement the figures for 1885-86 are also given, as that year like 1887-88, was one of only average rainfall and of considerable activity in irrigation. The Superintending Engineer draws an instructive comparison between the two years, showing how the distribution of the rains determined the character of the irrigation. The greater area of kharif irrigation last year naturally followed from the fact that the kharif rains measured nearly ten inches less than in 1885-86. Rabi irrigation, on the other hand, is largely influenced by the quantity of the October rains. In October 1887 there was a plentiful fall of 4·48 inches, which to a great extent rendered the rabi crops independent of the canals; whereas, although the total rabi rainfall, exclusive of October in 1885-86, was 2·65 inches, against only 1·07 in 1887-88, yet in October 1885 there was less than half an inch of rain, and rabi irrigation was correspondingly brisk.

The results of the year's operations, compared with those of 1886-87, show, as regards the kharif, an increase, which extends to all divisions, whilst the increase in the rabi is almost wholly in the Buxar Division. Under sugarcane the decrease is wholly in the Arrah and Buxar Divisions, the falling off being some 3,700 and 2,100 acres respectively, whilst in the Eastern Sone there is an increase of some 700 acres. There was a considerable decrease in the hot weather irrigation in the Arrah Division, which was only partly compensated by the increase in the other two divisions.

If we compare with the figures of 1885-86, a year more similar in character with 1887-88 than 1886-87, we find that the slight increase in the kharif is wholly due to the Eastern Sone Division, which rose from an area of some 36,000 acres to 50,000 acres, the Arrah Division falling off simultaneously by some 10,000 acres. The decrease in the rabi is in all divisions, whilst the increase and decrease in sugarcane is distributed as in the comparison with 1886-87. As regards hot weather irrigation the area in the Arrah Division rose from about 2,000 to nearly 10,000 acres, the Buxar falling off by some 4,000 acres. This class of irrigation is almost wholly dependent on the supply in the river, which supply is sometimes distributed to one and sometimes to another canal, according as it is necessary to keep them open or close them for repairs and clearance. No explanation of these fluctuations can apparently be given beyond the variation in the seasons and rainfall, to which remarks have already been made.

AREAS IRRIGATED BY DIVISIONS.

56. The areas actually irrigated in each of the executive divisions during the last five years are shown below:—

Year.	Eastern Sone Division.				Arrah Division.				Buxar Division.				Total for all Divisions.			
	Annual leases.				Annual leases.				Annual leases.				Annual leases.			
	Kharif and rabi.	Sugarcane and hot weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot weather.	Five-year leases.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1883-84 ...	36,030	150	18,620	54,800	96,593	10,973	56,372	163,938	101,413	4,133	26,330	131,876	234,036	15,256	101,322	350,614
1884-85 ...	46,531	1,328	25,136	72,995	97,400	4,556	82,573	184,619	64,909	4,337	43,801	113,047	208,960	10,221	151,510	370,661
1885-86 ...	20,294	1,041	27,945	49,280	54,968	6,821	95,232	157,021	56,140	13,522	56,607	126,269	131,402	21,384	179,784	332,570
1886-87 ...	11,869	1,316	34,104	47,379	21,710	20,300	98,737	140,747	13,165	5,288	61,625	80,078	46,744	26,904	194,556	268,204
1887-88 ...	20,399	679	40,123	61,201	25,982	13,079	102,423	141,484	38,715	6,362	67,618	112,695	85,096	20,120	210,164	315,380

N.B.—The areas for the year 1883-84 are those *assessed* within the year, but for the other years the figures represent the areas *actually irrigated*.

FLOW AND LIFT.

57. The proportion of *flow* to *lift* irrigation is shown below:—

	1887-88.		1886-87.		1885-86.		1884-85.		1883-84.	
Proportion	95·2	4·8	96·5	3·5	95	5	93	7	90	10

DUTY

58. The following statement shows the duty obtaining in the year under review and in the two previous years:—

			Eastern Main Canal Series.	Arrah Canal System.	Buxar Canal System.	Western Main Canal Series.	Sone Canals.
1887-88 ...	Kharif	Acres	54,738	112,506	78,197	190,702	245,435
		Duty on gross supply ...	54·4	85·5	81·2	82·4	73·9
	Rabi ...	Acres	11,111	31,590	38,396	69,986	81,097
		Duty on supply utilised ...	43·9	65·9	84·9	75·09	68·5
1886-87 ...	Kharif ...	Acres	40,358	107,621	59,586	167,207	207,565
		Duty on gross supply ...	56·3	107·1	142·8	114·8	95·5
	Rabi ...	Acres	10,148	36,182	30,091	65,273	75,416
		Duty on supply utilised ...	46·7	65·1	148·9	87·9	76·6
1885-86 ...	Kharif ..	Acres	39,582	134,441	80,661	205,102	244,684
		Duty on gross supply ...	45·4	88·7	97·0	93·6	79·9
	Rabi ...	Acres	12,324	44,946	47,371	92,317	104,641
		Duty on supply utilised ...	42·6	128·0	116·1	121·7	99·9

1886-87 was a year of such plentiful rain that its results are not of much value as standards of comparison. For this reason the figures of 1885-86 are also included in this return.

The kharif duties on the Sone Canals are calculated, to use the term adopted by the Government of India, on a three-months' base, that is, on the average gross supply during the three months from August to October inclusive. The same base has been used in former returns. The average duty obtained compares unfavourably with those of 1885-86 and 1886-87, in both of which the kharif rains were heavier. On the Eastern Main Series, however, though the duty recorded is still much below that obtained on the other canals, a decided improvement is visible, which is due to the introduction of better arrangements for distribution.

In the Arrah Division, Mr. W. A. Inglis, the Executive Engineer, has calculated that the supply of water spread over the country was equal to an effective fall of 5·7 inches of rain over the entire area, the drainage of which is effected by the canals of the division.

Other calculations regarding the irrigating efficiency of each cubic foot per second, supplied during the period of high pressure which followed the failure

of the *Hathya* rains, are given in the Superintending Engineer's report. A base of 14 days (from 29th September to 12th October) is taken. The duty so determined is for the Western Main Series 47·4, and for the Eastern Main Series 38·3 acres. In these calculations it was assumed that the whole of the supply was devoted to saving the rice crop, the cane-fields not receiving their share.

An attempt was made by the Executive Engineer, Arrah Division, to ascertain the actual quantity of water used for limited areas. The observations were made under adverse circumstances, in so far as the supply was given to fields which had been laid dry in anticipation of the *Hathya Nachattar*. On the other hand, the fields being alongside of the distributary, the loss in the channel was reduced to a minimum. The result was that during a period of four days 6·3 bigahs were irrigated per 24 hours by one cubic foot per second of discharge, giving just over 6 inches in depth on the whole area; and if it be assumed, as has been proposed at various times, that one such watering in 15 days is sufficient, then 1 cubic foot per second of discharge at the outlet should be sufficient for 94·5 bighas=59 acres if the outlet be constantly open, or for 63 bigahs=40 acres if the outlet runs for 10 days out of 15.

The continuation of the observations for a further period of seven days showed that 11 inches of water was given to the whole area irrigated, some of the fields receiving a second watering within five days of the first; the conclusion arrived at by the Executive Engineer was that the outlet was larger than necessary for the area served—a very just one.

The rabi duties are calculated as in former reports, on the supply utilised. A four months' base (from November to February) is taken. Notwithstanding the more favourable rainfall, the figures of the year under report work out to lower duties than those of 1885-86. Reasons for this decrease are not given in the Superintending Engineer's report, but the point is one of comparatively small importance, as cultivators are careful in their own interests to irrigate their rabi fields sparingly, and the supply of water is always plentiful and greater than the demand.

CROP EXPERIMENTS

59. Crop experiments to determine the value of canal water were as usual carried out. Of 333 rice fields so tested, the average yield per acre was decidedly superior in those which had been irrigated from the canals, being 17 maunds 27 seers of grain and 39 maunds 18 seers of straw, as against 10 maunds 30 seers of grain and 23 maunds 27 seers of straw from crops raised by other methods of irrigation. In wheat 212 experiments were made, and the balance both in grain and straw is slightly in favour of canal water; but this result is reversed in 21 experiments made on barley.

The Executive Engineer, Buxar Division, as the result of a hurried march through a portion of his division just before the rice was cut, states that he could safely say that the unirrigated rice had practically failed in the area traversed.

The following note by the Executive Engineer, Arrah Division, on the yield of a field which had been irrigated with canal water for the last two years is of interest:—

"One experiment of some interest was made at Nasrigunj. In village Nasrigunj field No. 653 (cadastral survey) has, since the commencement of canal irrigation, been cultivated with rice. Last season this block of land was sown with rabi crops instead, and irrigated as usual from the canal. The yield of field No. 653 was found to be 25 maunds per acre of wheat. The field had been manured by folding sheep on it. The result is satisfactory as showing that under proper cultivation a good crop of wheat can be grown with canal water. The land was originally poor, and has admittedly been much improved from the deposit of mud it has received from canal water."

Some doubt has been thrown on the value of these experiments. The Superintending Engineer states that in future they will be conducted as publicly as possible, and that zemindars will be invited to attend. In fact, a very valuable series of experiments have lately been completed by an officer unconnected with the department, and specially deputed for the purpose, which will be reported on elsewhere. This much may be said, that they confirm to a considerable extent the accuracy of the experiments made by the canal officers as to the value of canal water.

DEMANDS AND COLLECTIONS.

60. The following statement shows the demands, collections, and balance of water-rates for the last five years:—

YEARS.	DEMAND.			Remissions.	Net demand.	Collections.	Balance.	Percentage of collections to current demand.
	Arrears.	Current.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1883-84	3,11,665	7,42,311	10,53,976	1,45,974	9,08,002	4,84,209	4,23,793	65·2
1884-85	4,23,793	11,15,399	15,39,192	73,625	14,65,567	7,70,359	6,95,208	69·0
1885-86	6,95,208	8,07,702	15,02,910	1,26,266	13,76,644	9,78,323	3,98,321	121·1
1886-87	3,98,321	6,95,086	10,93,407	35,364	10,58,043	8,26,461	2,31,582	118·9
1887-88	2,31,582	7,25,810	9,57,392	26,525	9,30,867	5,19,586	4,11,281	71·5

As usual the figures given above are taken from those compiled by the Examiner of Accounts. The balances outstanding at the commencement and end of the year, and the amount of remissions, agree with those given by the Commissioner and Collectors, but there are discrepancies in the remaining items, due chiefly to the omission of miscellaneous revenue, and it has been found impossible to adjust them, though they are explained as far as practicable by the Superintending Engineer.

In the figure given above as the amount of the current year's demand, assessments of Rs. 1,30,559 are included, which were not legally recoverable till after the close of the year.

ARREARS.

61. The following analysis of the collections is intended to show the extent to which not only the current demand, but also the arrears of 1886-87 and earlier years, have been worked off. The figures are obtained from statement III attached to the Commissioner's reports. Though these have not in every case been found to agree exactly with the figures in the body of the report, the discrepancies are very trifling and do not affect the calculation of percentages:—

	Demand of 1887-88 how composed.	*Collected or remitted.	Percentage of demand adjusted.	Balance outstanding at close of year.
	Rs.	Rs.		Rs.
Arrears of 1884-85 and earlier years	43,376	26,063	60·0	17,313
Arrears of 1885-86	43,015	26,999	62 2	16,016
Arrears of 1886-87	1,46,191*	1,19,345	82 2	25,846
Total of arrear demand outstanding on 1st April 1887	2,31,582	1,72,407	74·4	59,175
Current demand of 1887 88	7.22,695	3,70,593	51·3	†3,52,102
Gross demand (including arrears)	9,54,277	5,43,000	56·9	......
Total outstandings at close of year ..	......	......	......	†4,11,277

* Includes Rs. 43,645 not legally recoverable within the year 1886-87.
† Includes Rs. 1,30,559 not legally recoverable within the year 1887-88.

The arrear balance with which the year commenced agrees with that shown in the returns of the Examiner of Accounts. In the closing balances shown in the two statements, there is a difference of Rs. 4 only. But the Examiner of Accounts, who includes the miscellaneous assessments and collections made within the year by the Collector of Shahabad, returns the gross demand at Rs. 9,57,392 and the gross collections and remissions at Rs. 5,46,111, the percentage being 57·0.

The closing arrear balance is extremely high, exceeding that left over from the previous year by more than 1¾ lakhs, while if the dues not legally recoverable within the year are not counted, the excess is still nearly a lakh, the figures for 1887-88 being Rs. 2,80,718 and for 1886-87 Rs. 1,87,914. It will be noticed, however, that the failure to collect occurred only in dealing with the current demand, as of the arrears of earlier years some Rs. 60,000 is all that still remains. These points are brought out in the table above given.

There can be little doubt that the agitation which led to the appointment of a Committee of Enquiry prejudiced the collections in more ways than one. The reluctance of the cultivator to pay was increased by exaggerated hopes of

remission. At the same time there was a great increase in the objections against the measurements, pending the disposal of which demand statements were kept back in the offices of Executive Engineers. From this delay in the issue of the demand statements, which is noticed in the reports of the district officers, the current collections of course suffered.

62. The following statement gives a comparison by districts of the operations of the year :—

Districts.	Arrears due for irrigation effected in previous years.				Demands for irrigation effected in year.			
	Percentage of total demands.				Percentage of total demands.			
	Demand.	Collections.	Remissions.	Outstanding at end of year.	Demand.	Collections.	Remissions.	Outstanding at end of year.
Shahabad—								
1887-88	100·0	66·0	13·8	20·2	100·0	54·8	0·7	44·5
1886-87	100·0	77·3	8·8	13 9	100·0	83 4	0·26	16 34
Patna—								
1887-88	100·0	45·5	5 6	48·9	100·0	22·0	0 2	77·8
1886-87	100·0	47 0	1·5	51·5	100 0	33·9	0 04	66 06
Gya—								
1887-88	100·0	89·0	1·7	9·3	100·0	42·2	0·2	57·6
1886-87	100·0	88·5	3·0	8·5	100·0	46 4	0·47	53 13
Average—								
1887-88	100·0	64·8	9·7	25 5	100·0	50·7	0 5	48·8
1886-87	100·0	74·3	7·2	18·5	100 0	76 35	0 25	23·4

The result of the operations cannot be considered satisfactory, the percentage of adjustments having been lower in all districts. Taking the total demand, both arrear and current, the Commissioner writes :—

"From the above figures it will be seen that both in Gya and Shahabad 60 per cent. of the total demand was adjusted during the year under report, while the adjustment in Patna was only 36 per cent., or a little more than one-third. On this subject Mr. Quinn, Collector of Patna, writes :—'The circle officer attributes the bad collections to the normal reluctance of the cultivators to pay their dues, increased this year by the false hopes of abatement or exemption excited by the appointment of the Irrigation Commission. There is no doubt a good deal of truth in these pleas, but they cannot be accepted as an explanation. Much of the reluctance to pay is no doubt due to a feeling on the part of rate-payers that they have not been supplied with water in such a way as to secure a full outturn of the crops, and much of the failure to collect is due to the indolence and dishonesty of the tehsildars, which it is the duty of the circle officer to counteract. Since the close of the year there has been some improvement.' Some of the tehsildars in this district who did not submit their account papers and money on requisition were suspended and afterwards dismissed, and one who, after keeping back his collections and accounts for a long time, finally forged a receipt to prove that he had paid in the money was criminally prosecuted, and was sentenced by the Patna Sessions Court to four years' rigorous imprisonment.

"In Gya a tehsildar was dismissed for making bad collections and keeping his accounts in a confused state. He misappropriated some Government money, and has been prosecuted.

"In Gya and Shahabad also the bad collection during the year was due to some extent to the agitation and the appointment of the Irrigation Commission. Rate-payers withheld payment in hopes of getting either entire or partial remission by way of reduction of rates, &c.

"Thus there were heavier balances in all the three districts at the close of the year, as compared with the balances with which the year opened."

63. Remissions show a great reduction in amount.

REMISSIONS.

	1887-88.	1886-87.
	Rs.	Rs.
By canal officers	6,911	13,279
By civil officers	19,614	22,085
Total ...	26,525	35,364

If refunds and cancelled khatianis are included, the result compares still more favourably.

	1887-88.	1886-87.
	Rs.	Rs.
Remissions and refunds	13,612	21,055
Cancelled khatianis	5,201	13,585
Total remitted by canal officers ...	18,813	34,640

Remissions by civil officers are of those arrears which it was found necessary to write off as irrecoverable.

The remissions by canal officers may be divided thus:—

	Percentage of remissions and refunds to gross demands. 1887-88.	1886-87.
Eastern Sone Division	0 74	0 68
Arrah Division	1·95	2·43
Buxar "	1·24	1 96

which may be considered satisfactory.

REVENUE ESTABLISHMENTS.

64. The expenditure on the revenue establishments employed is shown below:—

	1887-88.		1886-87.	
	Amount.	Percentage on collections.	Amount.	Percentage on collections.
	Rs.		Rs.	
Permanent and temporary establishments, such as zilladars, ameens, &c. ...	53,254	10·25	53,914	6 52
Establishment employed under Collectors...	30,466	5·85	28,028	3·39
Headmen's and patwaries' fees ...	51,523	9·92	61,718	7·47
Total ...	1,35,243	26·02	1,43,660	17·38

The figures are supplied by the Examiner of Accounts. There is an increase in the cost of permanent establishment under Executive Engineers, consequent on an increase in the sanctioned scale of pay, while in temporary establishment reductions have been made possible by the extension of long leases. The headmen's fees paid during the year were earned in that previous, and the lesser expenditure is due to the decreased area under irrigation then. The percentage of cost is greater owing to the deterioration of the collections already noticed.

COST OF MEASUREMENTS, &C., PER ACRE.

65. As regards the area assessed, the cost per acre is less than in the previous year, due to the increased area in 1887-88. There is, however, a decrease both in the absolute and relative cost of temporary establishment, which is satisfactory in every way.

Below is the usual approximate statement of cost of measuring lands brought under assessment during the year, and of preparing demand statements. The increase in the area assessed is followed by a corresponding reduction in the cost per acre of assessment.

Division.	Areas measured and assessed.	Cost of measuring crop.		Cost of preparing demand statements.	
		Total.	Per acre.	Total.	Per acre.
	Acres.	Rs.	Pies.	Rs.	Pies.
Eastern Sone	31,314	639	3·91	812	4·97
Arrah	60,467	2,851	9·05	2,038	6·47
Buxar	59,288	2,048	6·61	1,744	5·64
Total 1887-88 ...	151,069	5,538	7·00	4,594	5·83
Total 1886-87 ...	132,980	7,961	11·49	4,954	7·15

The rates are the lowest since 1884-85.

PUTWARIS.

66. The Superintending Engineer observes that when there is any dispute as to irrigation, there is still great difficulty in securing the attendance of putwaris, but that the extension of five-year leases has rendered their attendance of less importance.

COMPLAINTS.

67. Complaints of wrong assessment, received in this year or pending from the previous year, rose in number from 6,021 to 6,478, and miscellaneous complaints from 403 to *2,357: 625 complaints of wrong assessment and *146 miscellaneous had not been disposed of at the end of the year.

An analysis of the assessment-complaints is given in the Superintending Engineer's report, from which it appears that, excluding 1,344 complaints in the Ageaon subdivision, where the office registers were destroyed by fire, and which therefore cannot be classified, the applicants in 1,612 cases alleged that their crops had not been irrigated; in 1,121 that they had suffered from deficiency of supply; in 831 that they had been over-measured; and in 673 that they had been assessed under wrong names. Out of the 6,123 assessment-complaints disposed of, remissions were allowed in 2,285, or 37·3 per cent. In the previous year the percentage was 42·5. Of the other complaints, 31 related to drainage.

APPEALS

68. 41 appeals against the decisions of canal officers were preferred before the Collectors, of which 15 were wholly or partially allowed, 20 dismissed, and 6 are pending.

CERTIFICATE PROCEDURE.

69. The number of certificates filed during the year in the Patna district increased from 2,542 to 3,802, and in Shahabad fell from 8,826 to 1,617. In the former district 2,421 cases were pending from the previous year, giving a total of 6,223; of these, only 2,178 were disposed of, leaving a balance pending of 4,045. Nothing is said as to how they were disposed of, or what sum was realised on them. The Collector states that the amount covered by the 3,802 certificates was Rs. 13,811. On account of the slow progress additional mohurirs were appointed to assist in the certificate department in the latter part of the year. It is stated that progress has since improved. The circle officer of Gya states that in that district the collections under the certificate procedure amounted to only Rs. 307.

The information on this point given by the Collector of Shahabad is very complete, and is embodied in the following table:—

	1886-87.		1887-88.	
	Number.	Amount.	Number.	Amount.
		Rs.		Rs.
Cases for disposal—				
1. Cases pending at the close of the preceding year ...	8,089	25,360	6,692	44,195
2. Cases instituted during the year	8,826	72,112	1,617	25,295
Total ...	16,915	97,472	8,309	69,490
Cases disposed of—				
1. By being struck off owing to the demand having been remitted	1,054	5,491	2,846	16,054
2. By being wholly satisfied	9,169	47,786	4 496	35,293
Total ...	10,223	53,277	7,342	51,547
Balance outstanding at the close of the year	6,692	44,195	967	17,943

On these results the Collector offers the following remarks:—

"The above figures speak for themselves and show satisfactory results. The institutions were considerably less in number than usual owing to the arrears having been considerably reduced at the close of 1886-87, while the disposals were considerably larger than the institutions, and consequently the balance small. It will be seen that a large number of cases was struck off. These covered bad and irrecoverable debts."

The Commissioner will be asked to have information in other districts given in a similar form in future.

* Exclusive of those in the Ageaon subdivision, the records of which were destroyed by fire.

NAVIGATION RECEIPTS.

70. The tables below show the navigation revenue and tollage receipts for the last five years:—

NAVIGATION RECEIPTS.

Year.	Eastern Main Series.			Western Main Series.			Total.	Total tollage only.
	Number of miles open.	Tollage receipts.	Transport service receipts.	Number of miles open.	Tollage receipts.	Transport service receipts.		
	No.	Rs.	Rs.	No.	Rs.	Rs.	Rs.	Rs.
1883-84	86½	22,563	6,305	132¼	25,460	30,856	85,193	48,033
1884-85	86½	23,055	1,304	132¼	14,280	13,122	51,761	37,335
1885-86	86½	19,579	......	132¼	22,133	4,531	46,243	41,712
1886-87	86½	22,506	54*	132¼	27,159	4,535*	54,254	49,665
1887-88	86½	27,622	95*	132¼	23,362	4,825*	55,904	50,984

* There is no longer any Government transport service; these receipts are on account of hire of steamers, ferries and sundries.

TOLLAGE (ASSESSED).

Year.	Patna Canal System—Eastern Main Canal Series.	Arrah Canal System.	Buxar Canal System.	Total.
	Rs.	Rs.	Rs.	Rs.
1883-84	22,206	19,791	5,593	47,590
1884-85	23,142	10,316	3,937	37,395
1885-86	19,523	14,808	7,388	41,719
1886-87	22,646	18,289	9,001	49,936
1887-88	28,206	15,306	8,030	51,542

TRAFFIC.

71. COMPARISON OF TRAFFIC.

		1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
Number of miles open ...	No.	218½	218½	218½	218½	218½
Toll collections	Rs.	51,542	49,936	41,719	37,395	47,590
Rate of toll per mile ...	,,	236	229	191	171	218
Boats, including empties ...	No	8,116	8,573	7,210	6,434	8,822
Tonnage of boats	Tons.	95,082	104,835	77,006	61,744	95,474
Estimated value of cargo, including rafts	Rs.	56,80,508	64,65,651	36,41,863	41,10,598	62,54,476

There has been a falling off in the traffic during the year, whilst there has been a small increase to the total tollage assessed. On the Patna Canal system there is an increase in every way, and the increase in tollage amounts to Rs. 5,560, largely due to the extended rafting operations between Baroon and Patna. On the Arrah and Buxar Canals systems there is a decrease under all heads; and when the number of years during which the canals have been open to navigation is considered, the want of elasticity shown in these returns is discouraging. The decrease in the ton-mileage is relatively smaller than the decrease in tonnage, showing that longer trips were on the average made.

NAVIGATION ESTABLISHMENT.

72. The cost of the establishment employed on navigation was Rs. 13,212 against Rs. 13,379 in the previous year.

TRANSPORT SERVICE.

73. The transport service, which is managed by a contractor, continues to be maintained with regularity, and is popular.

MISCELLANEOUS RECEIPTS.

74. The miscellaneous receipts for the last five years are given in the following table:—

	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
	Rs.	Rs.	Rs.	Rs.	Rs.
Sale of water	370	702	1,742	582	399
Plantations	394	319	307	178	107
Other canal produce	2,145	2,904	2,424	1,339	2,047
Water power	708	668	469	488	857
Rent of buildings	7,197	7,198	7,213	6,409	6,305
Fines	317	169	653	734	778
MISCELLANEOUS. Rent of lands ...	10,997	15,231	14,369	13,770	13,322
MISCELLANEOUS. Fisheries	502	565	421	732	350
MISCELLANEOUS. Cost of process ...	2,474	6,302	6,414	7,066	4 218
MISCELLANEOUS. Sale of old materials ...	60	443	356	405	55
MISCELLANEOUS. Other items ...	3,295	3,213	3,713	8,651	5,967
Total ...	28,459	37,714	38,080	40 354	34,405

The chief decreases will be observed under "Rent of lands," of which the explanation is that it has been found necessary to retain possession of land required for repair purposes, owing to difficulties experienced in dispossessing the occupants when required; and under "Cost of processes," probably due to the issue of fewer certificates by the Collector.

PLANTATIONS

75. The state of the plantations in each Division at the close of the years 1886-87 and 1887-88 is shown in the statement following:—

DIVISION.	1887-88.				1886-87.					
	Trees over 12 feet in height.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.	Trees over 12 feet in height.	Saplings between 4 and 12 feet	Seedlings under 4 feet.	Total.	Increase.	Decrease.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Eastern Sone	64,280	28,334	59,440	152,054	68,036	43,020	48,741	159,797	...	7,743
Arrah	31,503	15,274	54,244	101,021	28,702	11,820	52,935	93,457	7,564	.
Buxar	9,603	14,765	18,327	42,785	9,899	5,156	12,263	27,318	15,467	. .
Total ...	105,476	58,373	132,011	295,860	106,637	59,996	113,939	280,572	23,031	7,743

The expenditure on plantations was Rs. 8,300* and the receipts Rs. 394, against Rs. 5,189 and Rs. 319, the respective amounts in the previous year It is pointed out that it has not been usual to credit plantations with the value of trees cut down and used for lime manufacture and similar work. Orders have since been issued on the subject, and the value of such trees will in future be charged against the works on which they are used.

* The amount shown by the Examiner is Rs. 7,178, he having charged expenditure on the new plantations at Dehree to head works.

FINANCIAL RESULTS

76. The receipts on revenue account and working expenses (direct charges) of the Sone Canals for the year 1887-88 and the four preceding years are shown in the statement below:—

	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts—					
Water-rates	5,19,586	8,26,461	9,78,323	7,70,359	4,81,209
Navigation	55,904	54,254	46,243	51,761	85,193
Miscellaneous	28,459	37,714	38,080	40,354	34,405
Total ...	6,03,949	9,18,429	10,62,646	8,62,474	6,03,807
Working expenses—					
Maintenance	5,52,428	4,07,529	3,80,929	4,50,313	3,74,795
Irrigation establishment ...	1,35,243	1,43,660	1,46,028	1,29,308	1,14,005
Navigation ditto	14,308	14,535	14,756	16,885	20,248
Refunds of revenue	15,331	15,737	10,657	7,455	5,429
Total ...	7,17,310	5,81,461	5,52,370	6,03,961	5,14,477
Net profit, exclusive of indirect charges	(—)1,13,361	3,36,968	5,10,276	2,58,513	89,330

The change of a net revenue of nearly $3\frac{1}{2}$ lakhs to a deficit of over 1 lakh is mainly due to the falling off in the water-rates, and the increase from some Rs. 71,000 to Rs. 2.10,000, for the direction, account and executive, under the new system as already explained.

REPAIRS TO HEAD-WORKS.

77. The cost of repairs to head-works during the last five years was as follows:—

	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.
	Rs.	Rs.	Rs.	Rs.	Rs.
Sone weir ...	47,150	68,570	34 908	29,922	18,848
Other works ...	12,997	10,419	7,697	9,462	9,861
Total ...	60,147	78,989	42,605	39,384	28,709

The outlay on the Sone weir was again swollen by payments in connection with the rebuilding of the river sluices. Excluding these special repairs, it was Rs. 25,139 only. The excess on 'other works' occurs chiefly in the repairs of the head-sluice and on station roads.

MAINTENANCE OF MAIN CANALS AND DISTRIBUTARIES.

78. The outlay on main canals and distributaries in each division can be compared below:—

	Arrah Division.		Buxar Division.		Eastern Sone Division.	
	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.	1886-87
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs
Western Main Canal	42,388	36,928	10,456	9,054		..
Eastern ditto	..		....	..	30,672	16,167
Canals	25,717	29,796	11,686	18,454	26,395	24,090
Branch canals	16,874	11,796	12,710	12,863	..	..
Distributaries .	27,136	25,434	12,604	17,778	19,806	15,879
Drainage and protective works	3,044	1,932	388	1,090	2,944	2,130
Total	1,15,159	1,05,885	47,844	60,130	79,817	58,266

These figures are taken from the Superintending Engineer's report, and agree with those of the Examiner. The cost of maintenance, excluding head-works and telegraph lines, is Rs. 2,42,820 against Rs. 2,24,290 shown last year.

SILT-CLEARING AND DREDGING.

79. On the Eastern and Western Main canals the excess occurs under silt-clearing and dredging. The former canal was closed for one month at the beginning of the year, and about two lakhs of cubic feet were cleared by hand. The large accumulation of silt deposited in the main canals during the rains was a consequence of the high discharges which it was necessary to keep up for irrigation purposes at a time when the Sone was in flood and its waters consequently heavily silt-laden.

The quantity of silt dredged from the main canals, and the rate at which the work was done, are given below:—

CANAL.	1887-88.			1886-87.		
	Cubic feet dredged	Cost, including removal over spoil bank, or discharge into river.	Rate per 1,000 cubic feet.	Cubic feet dredged.	Cost, including removal.	Rate per 1,000 cubic feet.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Eastern Main ...	3,056,923	17,521	5 11 6	1,864,643	8,500	4 8 11
Western Main ...	7,769,055	46,019	5 14 10	4,170,601	30,946	7 6 6

The cost of removal, as shown above, varies with the height of the spoil bank over which the silt has to be carried, or the distance of the river from the point at which the dredging takes place. The cost of dredging alone increased in the Eastern Sone Division from Re. 1-1 6 to Re. 1-9-8 per thousand cubic feet, the rise being due to the use of coal instead of wood. In the Arrah Division, the rate, inclusive of the delivery of the silt in punts at the side of the canal, was stated in the report of last year at Rs. 3-8-11 per thousand cubic feet. In the report now received, the average rate at which the same work was done in 1887-88 is returned at Rs. 2-3, of which 5 annas is the proportion of cost incurred in the haulage of the punts. Reasons are not given for the fall thus apparent in the rate.

The Superintending Engineer has given some very interesting information in connection with the working of the various classes of dredgers. From this

it would appear that the Fouracres' type of dredger is the most suitable for the work, as four of them excavated 2,035,870 cubic feet of silt at an average rate of Rs. 4·5 per thousand cubic feet and at a cost of repairs (deduced from the total cost on 12 of them) of Rs. 2,488, as against one English dredger's work of 1,021,053 cubic feet excavated at an average rate of Rs. 5-11-6 per thousand cubic feet and at a cost in repairs (deduced from the total expenditure on two of them) of Rs. 1,449. It is, however, impossible to make a complete comparison without introducing a charge for interest and depreciation, and although the Superintending Engineer in his last year's report gave figures for these, they were for a whole year; whereas it is clear that the factor of time during which the dredger was at work or laid up on account of that work cannot be neglected, and this important item cannot be obtained from the data given by the Superintending Engineer.

The quantity and cost of silt clearances by hand in the Eastern Main Canal is as follows :—

	1887-88.			1886-87.		
	Cubic feet cleared by hand.	Cost.	Rate.	Cubic feet cleared by hand.	Cost.	Rate.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Eastern Main	1,981,162	9,081	4 13 6	1,105,522	4,887	4 6 4

In both years the quantity cleared on the Western Main Canal was inconsiderable.

Apart from the outlay on main canals, the cost of maintenance shows, on the Arrah Division, an increase of Rs 3,814, which can again be traced to silt-clearance; while in the Buxar Division, where, as noted last year, the repair work done in 1886-87 was unusually large, there is a decrease of Rs. 13,697. In the Eastern Sone Division there is an increase of Rs. 7,046, occurring partly under 'Earthwork,' due to the raising in places of the banks of the Patna canal and the resectioning of those of some distributaries, and partly under 'Contingencies,' to which the cost of a fresh demarcation of distributary lands, which was found necessary, was charged.

WEED-CLEARING.

80. The cost of weed-clearing increased by Rs. 318 :—

	1887-88.	1886-87.	1885-86.	1884-85.	1883-84
	Rs	Rs.	Rs.	Rs.	Rs.
Eastern Sone Division	558	314	2,116	1,589	2,777
Arrah Division	3,342	2,218	2,491	3,976	5,948
Buxar Division	1,015	2,065	77	......	270
Total ...	4,915	4,597	4,683	5,565	8,995

MILEAGE RATES OF REPAIRS.

81. Mileage rates of cost of repairs are worked out below both for canals and distributaries, and compared with the rates of previous years.

Canal.	Division.	1887-88.		1886-87.		1885-86	
		Number of miles.	Cost per mile.	Number of miles.	Cost per mile.	Number of miles.	Cost per mile.
		No.	Rs.	No.	Rs	No.	Rs
Eastern Main Canal ...	Eastern Sone ...	7¼	4,230	7¼	2,215	7¼	4,071
Western ditto ...	Arrah ...	5	8,177	5	7,385	5	12,857
	Buxar ...	16¾	633	16¾	546	16¾	256
Buxar Canal ...	Do.	45¼	258	45¼	406	45¼	209
Patna do.	Eastern Sone ...	79	384	79	305	[illegible]	268
Arrah do. ...	Arrah	65	392	65	455	65	359
Doomraon Branch ...	Do. ...	40½	242	40½	152	40½	179
Behea do.	Do.	31	229	31	182	31	188
Chowsa do ...	Buxar ...	39½	195	39½	200	39½	156
Gurra Chowbey Branch ...	Do.	38	131	38	131	38	78
Distributaries	Arrah ...	467½	58	467½	54	469	66
	Buxar ...	341¼	37	338¾	53	333¾	40
	Eastern Sone ...	358	55	357	45	352	39

The principal causes of increase in expenditure and consequently in rates per mile on canals and distributaries in the several divisions have already been explained, and it is therefore unnecessary to repeat the explanation here.

CLOSURES.

82. The Eastern Main series were closed from the 17th April to the 16th May 1887, and the Western Main series from the 15th May to the 20th May.

FLOODS.

83. There were no floods of importance, the river rose rather more than one foot higher than its highest level of last year.

CALCUTTA AND EASTERN CANALS.

84. The manner in which the duties of maintaining and administering these canals are distributed between the Executive Engineer and the Collector and Supervisor was described in last year's report, and no change has been made.

CAPITAL ACCOUNT.

The Capital and Revenue Accounts are given below:—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1887-88.	Outlay to end of 1887-88.
DIRECT CHARGES.	Rs.	Rs.
Old outlay prior to the year 1861-62	...	24,91,012
I.—Works	7,607	19,94,865
II.—Establishment	3,562	3,74,431
III.—Tools and plant	2,481	3,45,587
IV.—Profit and loss	......	847
V.—Suspense accounts	1,693	14,377
Total ...	15,343	52,21,119
Less receipts on Capital Account	......	41,553
Net total ...	15,343	51,79,566
INDIRECT CHARGES.		
Leave and pension allowances	499	59,550

REVENUE ACCOUNT.

2.—REVENUE ACCOUNT (ACTUALS).

	EXPENDITURE.			RECEIPTS.	
	During 1887-88	To end of 1887-88.		During 1887-88.	To end of 1887-88
	Rs.	Rs.		Rs.	Rs.
Old outlay prior to the year 1861-62 ...	... ..	13,63,615	Old revenue ...	......	80,17,101
Works (extensions and improvements) ...	1,478	8,96,444	Navigation ...	5,74,766	1,12,46,708
Maintenance and repairs...	1,04,527	28,08,813	Miscellaneous .	5,168	4,11,476
Establishment ...	88,168	21,00,515			
Tools and plant ...	18,139	61,705			
Total ...	2,12,312	72,31,092			
Profit	3,67,622	1,24,44,193			
Total ...	5,79,934	1,96,75,285		5,79,934	1,96,75,285

The above statement is exclusive of indirect charges.

INTEREST ACCOUNT.

There is no interest account, the whole expenditure having been defrayed from Provincial funds.

85. The following statement shows the financial results of those canals for the last ten years. The figures are for direct charges only:— FINANCIAL RESULTS

YEAR.	DIRECT CAPITAL CHARGES.		DIRECT RECEIPTS AND OUTLAY.			Percentage of net direct revenue to direct capital expenditure to end of year.
	During the year.	To end of the year.	Gross revenue.	Direct charges.	Net revenue.	
	Rs.	Rs.	Rs.	Rs.	Rs.	
1878-79 ...	1,38,127	33,06,289	4,01,535	1,70,264	2 31,271	6·9
1879-80 ...	2,54,181	35,60,470	3,44,565	1,88,778	1,55,787	4 3
1880-81 ...	6,14,495	41,74,965	4,14,145	2,15,601	1,98,544	4 7
1881-82 ...	5,50,123	47,25,088	4,82,467	3,27,254	1,55,213	3 2
1882-83 ...	3,15,059	50,40,147	5,64,194	3,20,265	2,43,929	4 8
1883-84 ...	1,52,297	51,92,444	5,64,101	2, 0,624	3,43,477	6·6
1884-85 ...	9,197	52,01,641	(a) 5,69,726	2,78,192	2,91,534	5 6
1885-86 ...	(—) 42,574	51,59,067	(b) 4,79,484	1,86,747	2,92,737	5 7
1886-87 ...	5,156	51,64,223	4,83,654	1,82,888	3,00,766	5 8
1887-88 ...	15,343	51,79,566	5,79,934	2,12,312	3,07,622	7·1

(a) Is Rs. 35,185 larger than it should be by reason of error of account.
(b) Is Rs. 35,185 smaller ditto ditto ditto.

Both the gross and net revenues are the largest since 1876-77 inclusive, and probably the largest that have ever been realised, although the percentage of net direct revenue to direct expenditure on capital account has been once higher, viz. in 1877-78, when it was 8·1 per cent. But the expenditure on capital account up to the close of that year was only Rs. 31,68,162, against Rs. 51,79,566 now. The expenditure, though larger than that of the previous two years, is still some Rs. 15,000 below the average of the previous ten years. Including indirect charges, the net revenue gives a return of 6 78 on the expenditure under capital account.

86. The following statement shows the details of the revenue collections during the year :— COLLECTIONS.

CANALS.	Number of boats and rafts.	COLLECTIONS BY COLLECTOR AND SUPERVISOR.						COLLECTIONS BY EXECUTIVE ENGINEER	GRAND TOTAL, GROSS REVENUE
		Tolls from boats and rafts.	Demurrage.	Ferry tolls.	Tolls from steamers and flats.	Rents of buildings, lands, and other miscellaneous receipts.	Total.	Rents of buildings, lands and other miscellaneous receipts	
	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs
Calcutta and Eastern Canals.	88,987	4,21,074	3,998	2,197	4,445	2,914	4,35,528	1,646	4,37 174
Tolly's Nullah .	80,044	1,40,431	1,024	697	.	608	1,42 760	.	1 42 760
Total 1887-88 .	169,031*	5,62,405	5,022	2,894	4,445	3,522	5,78,288	1,646	5,79,934
Total 1886-87 ..	145,768	4,68,082	746	3,538	4,365	4,317	4,81,048	2,606	4,83,654

* Inclusive of empty and passenger boats.

The increase in the gross revenue occurs entirely in receipts derived from the traffic. On other sources of receipt there is a decrease, chiefly caused by the transfer of surplus canal lands to the Civil Department, where the proceeds are now credited.

87. The following statement shows the number of the different classes of boats which passed through the canals during the year :— BOATS

	NUMBER OF BOATS OF THE FOLLOWING MEASUREMENT BY CANAL RULES.					
	Up to 100 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 maunds.	Between 2,500 and 5,000 maunds.	Over 5,000 maunds	TOTAL
Calcutta and Eastern Canals .	34,968	30,858	21,227	1,809	89	88,959
Tolly's Nullah .. .	18,244	24,798	7,202	59	...	50,298
Boats not classed, but being mostly small boats of less than 100 maunds paying toll at Russah	..	.		..		29,641
Total 1887-88 ..	53,212	55,656	28,429	1,868	89	168,898
Total 1886-87 ...	48,989	43,777	22,461	1,805	49	145,611

An increase of 23,287 has thus taken place in the number of boats, to which every class of boats has contributed. Regarding the small boats which enter Tolly's Nullah at Russah, the Superintending Engineer notices that,

though there is an increase in numbers, it is accompanied by a slight falling off in toll collections. The cause of this is found in the deterioration of the Kaurapokur khall, a feeder which has not hitherto been included in the Calcutta and Eastern System of canals. A survey of this khall has now been ordered with a view to its improvement and future maintenance by Government.

TRAFFIC.

88. The increase in the tonnage of the boats and in the weight and value of the cargoes is apparent in the following comparison of the results of three years:—

		Number of boats.	Tonnage of boats by canal measurement.	Weight of cargo carried.	Value of cargo carried.	Tollage, including demurrage.	Percentage of toll on value of cargo.
		No.	Tons.	Tons.	Rs.	Rs.	
1887-88	Calcutta Canals ...	88,412	2,065,967	696,752	4,78,97,746	4,30,417	
	Tolly's Nullah ...	79,328	914,938	259,775	1,56,64,747	1,41,455	
	Total ..	167,740	2,980,905	956,527	6,35,62,493	5,71,872	0·89
1886-87	Calcutta Canals ...	75,720	1,704,802	645,250	4,19,81,723	3,63,798	
	Tolly's Nullah ...	70,048	618,460	215,684	1,10,60,947	1,09,395	
	Total ...	145,768	2,323,262	860,934	5,30,42,670	4,73,193	0·89
1885-86	Calcutta Canals ...	74,715	1,819,746	676,046	4,75,39,002	3,83,057	
	Tolly's Nullah ...	72,344	654,653	387,097	1,25,64,300	1,09,156	
	Total ...	147,059	2,474,399	1,063,143	6,01,03,302	4,92,213	0·82

A reference to form IID of the statistical table makes it evident that the expansion has taken place in the grain and jute traffic, the latter being included under "Miscellaneous." Of rice, 355,240 tons were carried, against 240,756 tons in the year previous. Jute has risen from 90,416 tons to 124,630 tons. Other branches of trade have either remained steady or shown decreases.

TOLLS ON STEAMERS AND FLATS.

89. The tollage realised on steamers and flats using the Sunderbund route was Rs. 4,445 against Rs. 4,365, and was collected on 889 vessels against 873 in the previous year.

MISSING TICKETS.

90. Of missing tickets there were 677 against 542 of the previous year. The increase occurs chiefly at the Dhappa and Russah toll stations on tickets issued for Tolly's Nullah, that being an open channel from which the boats have opportunities of escaping. On the whole, the missing tickets are few in proportion to the number of boats frequenting the canals, and the check now exercised over the toll collections is much better than under the system of former years.

REVENUE ESTABLISHMENT.

91. The table below compares the entire cost of the revenue establishment under the Collector and Supervisor with the gross collections made by him:—

	Gross collections made by Supervisor.	Cost of entire revenue establishment.	Percentage.
	Rs.	Rs.	
1887-88	5,78,288	38,920	6·73
1886-87	4,81,048	42,714	8·84
1885-86	5,13,839	44,751	8·70

There has been an increase of Rs. 1,868 in the salary of the Supervisor, due to increased toll collections and consequent increase in commission payable to him. This, however, has been more than counterbalanced by the savings on most of the other sub-heads, regarding which the Superintending Engineer reports:—"The decrease in the salary of Inspectors is owing to the abolition of the Chitpore Inspectorship and saving from the pay of the Russa Inspector on furlough since December 1887. Reductions have also been effected in office establishment, canal police and domes. The decrease in contingencies is caused by there being no office rent to pay during the year, as the office has been removed to a building belonging to Government."

The result of the reduction in cost of establishment, whilst there has been a large increase in the number of boats measured, is that the cost per boat measured has fallen from 4·69 annas to 3·68 annas.

MAINTENANCE CHARGES.

92. The charges (direct and indirect) of the year, inclusive of the cost of the extensions and improvements carried out, come to Rs. 2,24,656, against 1,92,264 for 1886-87. The summary below shows that the excess has occurred mainly under establishment and tools and plant:—

	1887-88.	1886-87.
	Rs.	Rs.
Extensions and improvements	1,478	5,092
Maintenance and repairs	1,04,527	1,02,480
Establishment	88,168	66,969
Tools and plant	18,139	8,347
Indirect charges	12,344	9,376
Total ...	2,24,656	1,92,264

The increase under establishment is an increase only of account. The increase under tools and plant is due to heavy expenditure incurred on the dredging plant. Regarding maintenance, extensive repairs were again carried out on the bridges over Tolly's Nullah, while the expenditure on repairing and protecting the canal banks was Rs. 19,921 against Rs. 11,521. The cost of maintaining the steamer route was increased by the necessity of blowing up two wrecks, which were a source of danger in the channel. The work was carried out for Rs. 6,317, of which Rs. 3,000 was paid within the year.

DREDGING.

93. 350,700 cubic feet of silt were removed by the dredgers at an average rate of Rs. 9 8-4 per thousand. The corresponding rate during 1886-87, when 985,650 cubic feet were removed, was Rs. 8-13.

ORISSA COAST CANAL.

CAPITAL ACCOUNT

94. The following statement shows the Capital and Revenue Accounts of this canal:—

I.—CAPITAL ACCOUNT.

Heads of Account.	Outlay during 1887-88.	Outlay to end of 1887-88.
Direct Charges.	Rs.	Rs.
I.—Works	2,38,059	31,48,801
II.—Establishment	58,885	7,01,158
III.—Tools and plant	34,425	1,71,352
IV.—Suspense accounts	(—)8,860	38,222
Total ...	3,22,509	40,59,533
V.—*Less* receipts on Capital Account	407	3,271
Net total ...	3,22,102	40,56,262
Indirect Charges.		
Capitalised abatement of land revenue	54	784
Leave and pension allowances	8,244	98,077
Total indirect charges ...	8,298	98,861

The original estimate sanctioned for the Orissa Coast Canal amounted, including indirect charges, to Rs. 36,02,297, which has been exceeded by the expenditure already incurred. A revised estimate of Rs. 44,74,941 has recently been submitted for the approval of the Government of India. The canal is now in full work, and, with the exception of perfecting arrangements for feeding Range IV B by means of an iron supply-pipe, the provision of dredging plant, some earthwork in bed which it is proposed to remove by dredging, and some minor works, may be considered practically complete.

The expenditure has been entirely from Provincial Funds, with the exception of Rs. 8,66,000 contributed from Imperial Protective Funds. There is not interest account.

REVENUE ACCOUNT

II.—REVENUE ACCOUNT (ACTUALS).

	Expenditure.			Receipts.	
	During 1887-88.	To end of 1887-88.		During 1887-88.	To end of 1887-88.
I.—Maintenance and Repairs.	Rs.	Rs.		Rs.	Rs.
Maintenance and repairs	53,277	1,20,401	Navigation ...	52,828	95,078
Establishment, including direction and accounts.	14,289	29,735	Miscellaneous ...	1,026	1,982
Tools and plant ...	8,743	12,966			
Total ...	76,309	1,63,102	Total receipts ...	53,8[illegible]4	97,060
II.—Revenue management.					
Navigation establishment.	4,559	7,351	Deficit ...	27,031	73,410
III.—Refunds of revenue	17	17			
Total working expenses	80,885	1,70,470	Total ...	80,885	1,70,470

During 1886-87, 91 miles were temporarily opened for traffic for 5½ months. For that year the receipts were Rs. 29,488 and the working expenses Rs. 59,704, showing a deficit of Rs. 30,216. On the 1st September 1887 the canal was opened to traffic throughout its entire length of 97½ miles.

The receipts show that the traffic is being steadily developed. The expenditure, on the other hand, was abnormally increased by the necessity of making good the damage caused by the cyclone of May 1887. As the canal was entirely open for only a part of the year, calculations of the mileage rate of repairs and a detailed comparison of the expenditure with that in previous years are for the present unnecessary, although it may be mentioned that the increase of tolls on all the ranges shows that all have participated in the advantage of the through opening.

The usual information regarding the traffic will be found in tables I and IID. These do not appear to call for comment at present, but it is satisfactory to note that the number of boats has increased by nearly 3,000, or nearly 33 per cent.; their registered tonnage by more than 52,000 tons, or 70 per cent., whilst the ton-mileage and value of cargo have nearly doubled. The number of passengers rose from 6,110 to 29,704, probably due in great measure to the losses of sea-going steamers.

SARUN CANALS.

CAPITAL ACCOUNT

95. The Capital and Revenue Accounts of these canals are given below:—

I.—CAPITAL ACCOUNT.

Heads of Account.	Outlay during 1887-88.	Outlay to end of 1887-88.
	Rs.	Rs.
Direct Charges.		
Works	......	4,79,946
Establishment	......	1,64,170
Tools and plant	......	25,612
Total	......	6,69,728
Less—Receipts on Capital Account	......	498
Net Total ...	......	6,69,230
Indirect Charges.		
Capitalised abatement of land revenue	......	97
Leave and pension allowances	......	27,086
Total indirect charges ...	......	27,183

There is a difference in the total number of boats as returned by the Commissioner and as compiled from the monthly traffic statements. Both the above tables agree, however, in showing a decrease of close on 1,000 boats; the decline in the assessments being Rs. 4,337, or 2·14 per cent. The receipts no doubt suffered mainly because, of the three channels which furnish alternative routes to traffic, it was found during the low water season that only one (the Bhyrub-Jellinghee) could be maintained in a navigable condition. The entrance to the Bhagirathi became so deteriorated that the reading on the Berhampur gauge fell to 1′ 9″ above zero on the 30th January 1888, whereas on the same date in 1887 it was 4′ 11.″ The steamer service was with difficulty maintained as far as Cutwa. Further deterioration of the entrance of the Matabhanga also rendered it impracticable to keep it open for navigation, although a sufficient supply for drinking purposes was passed down.

On the Bhyrub-Jellinghee the collections were greater by Rs. 2,991, the increase occurring chiefly under gram, pulse, and rafted timber. The falling off on the Bhagirathi was Rs. 3,395, occurring chiefly under salt; and on the Matabhanga Rs. 4,045, under rice and jute.

CHARGES

103. The charges against revenue for the past five years are detailed in the following statement:—

Year.	Charges in Public Works Department.							Charges in Civil Department.	Grand Total.
	Works	Maintenance and repairs.	Working Government steamers	Petty items	Establishment.	Tools and plant.	Total.	Charges for collection.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1883-84	1,031	81,618	543	352	10,207	(—)1,502	1,01,249	21,129	1,22,378
1884-85	30	57,579	935	2,276	13,076	1,749	76,645	20,790	97,335
1885-86	.	42,124	800	1,422	9,801	1,759	56,006	21,062	77,068
1886-87 ..	...	26,327	1,800	1,984	6,065	1,409	37,585	22,628	60,213
1887-88		47,262	..	(—)778	19,749	3,593	69,846	22,176	92,022

Regarding the greater cost of maintenance and repairs, the Superintending Engineer explains that Rs. 37,073 (as against Rs. 17,744 in 1886-87) was spent in training the Bhagirathi river, though, as already pointed out, the efforts to keep this channel open during the dry season resulted in failure. The share of establishment charges allotted against the works in the Public Works Department has increased by over Rs. 13,000.

COLLECTION CHARGES

104. In the cost of collection incurred in the civil department a reduction of Rs. 452 has been effected, but on account of the falling off in the gross revenue the percentage has risen from 11·1 to 11·2. The cost per boat measured is about the same as last year, viz. 5·4 annas.

EDEN CANAL.

105. There are no capital or revenue accounts for this canal, which has been constructed entirely from Provincial funds, and has for its primary object the supply of drinking water to the villages on its banks and in the neighbourhood of the various minor natural channels supplied by it. It is also the source of supply for the Burdwan water-works.

EXPENDITURE

106. The expenditure for the year was as follows:—

	Rs.
Works	8,628
Maintenance and repairs	20,498
Establishment and tools and plant	12,643
Total ...	41,769

against an expenditure of Rs. 48,424 in the previous year. The repairs, &c., were of the usual nature.

REVENUE

107. The revenue derived was Rs. 918, against Rs. 810 in the previous year, and was entirely on miscellaneous account. No workable scheme for regular irrigation from this canal has yet been submitted.

MADHUBAN CANAL.

108. This is a small provincial work, for which no capital or revenue accounts are kept. There was no irrigation from the canal owing to the breach in the weir mentioned in last year's report.

EXPENDITURE.

109. The expenditure for the year was as follows:—

	Rs.
Works	4,729
Maintenance	1,810
Establishment and tools and plant	3,282
Total ...	9,821

that for the previous year was Rs. 6,941, there being increments in all items, but especially in establishment. The masonry of the Teur weir was completed before the rains, and the whole work practically finished by the close of the official year.

REVENUE.

110. The only receipts were Rs. 9 for fishing rents.

GENERAL REMARKS.

NET INCOME.

111. There has been a deficit in the year 1887-88 in working the Major Irrigation Works in Bengal, amounting to Rs. 4,00,356, thus:—

	Rs.
Gross direct receipts	11,03,229
Ditto charges	15,03,585
Deficit ...	4,00,356

The budget estimate for net revenue was (—) Rs. 92,000, and the revised estimate was (—) Rs. 1,67,000, thus:—

	Budget.	Revised estimate.
	Rs.	Rs.
Direct receipts	13,58,000	13,58,000
" charges	14,50,000	15,25,000
Net revenue ...	(—) 92,000	(—) 1,67,000

It will thus be seen that a considerable defect in the year's working was anticipated, but the actual deficit is more than double this, and is wholly due to the failure in the collections, the charges having been somewhat under what had been estimated. The short realisations were practically wholly on the Sone Canals and under water-rates, the irrigation receipts being more than $2\frac{1}{2}$ lakhs short of the revised estimate. This serious defect was in a great measure due to the collections in the last few months of the year having been very far below the usual proportional amount collected in those months. Still a very grave oversight was undoubtedly made in not altering the figures in the revised estimate, when it was clear not only that the arrear balance was smaller than in the previous year and hence that the total amount to be collected was also probably smaller but that the collections were getting far behindhand, and that the agitation which brought about the enquiry into the Sone Canal system was affecting in a most marked manner the realisation of the revenue.

EARNINGS

112. The principal results of the year, based upon the "Earnings," as compared with similar results of the previous year, are shown in the following statement:—

	1886-87.	1887-88.
	Rs.	Rs.
Orissa Canals	(—) 2,93,621	(—) 2,45.842
Midnapore Canal	5,729	6,007
Hidgellee Tidal Canal	31,569	(—) 23,037
Sone Canals	2,05,593	92,863
	(—) 50,730	(—) 1,70,009

The expenditure has been wholly against Provincial funds.

II.—REVENUE ACCOUNT (ACTUALS).

REVENUE ACCOUNTS.

	Expenditure.			Receipts.	
	During 1887-88.	To end of 1887-88.		During 1887-88.	To end of 1887-88.
	Rs.	Rs.		Rs.	Rs.
Maintenance and repairs	18,601	1,68,808	Water-rates ...	21,070	1,31,736
Establishment ...	9,119	43,663	Navigation ...	....	263
Tools and plant ...	400	(—)7,504	Miscellaneous ...	(—)405	7,042
			Total ...	20,665	1,39,041
			Deficit ...	7,455	65,926
Total ...	28,120	2,04,967		28,120	2,04,967

The working expenses, as shown in this statement, are greater than those of the previous year, which were returned at Rs. 27,903. It is as well to note, however, that greater economy was observed in the actual repairs, which cost Rs. 18,601 in 1887-88, as against Rs. 23,481 in 1886-87, and that the excess takes place entirely in the share of establishment charges allotted to the work, which was Rs. 9,119 as against Rs. 5,400.

MAINTENANCE.

96. Among the maintenance charges there is an item of Rs. 681, the cost of a new sluice built under the Sarun-Gunduk embankment to drain impounded water. Of silt, 1,489,900 cubic feet were cleared from the channels at an average rate of Rs. 3-10. In 1886-87 the quantity was 2,359,940 cubic feet, and the average rate Rs. 3-8.

IRRIGATION.

97. These canals were constructed primarily for the supply of water for indigo manufacture. The irrigation is conducted by the gentlemen appointed to be canal managers, who are also the guarantors of the revenue. 4,218 acres were irrigated, of which 1,699 acres were paddy and 2,193 were rabi, including opium. The Superintending Engineer reports that during the rabi season there was a large demand for water for indigo sowings. 105 cubic feet per second was the average discharge supplied during the kharif months and 201 during the rabi months.

The areas irrigated for all years since 1881-82 are as follow:—

1881-82	666
1882-83	1,741
1883-84	21,122
1884-85	7,223
1885-86	4,565
1886-87	2,146
1887-88	4,218

COLLECTIONS.

98. The annual amount for which the guarantors have made themselves liable is Rs. 21,850. The actual amount collected during the year was Rs. 21,070, so that there is an increase in the arrear balance shown at the end of the year. The following statement of account is taken from the Superintending Engineer's report:—

	Rs.
Balance unrecovered on April 1887	23,541
Assessment of the yearly guarantee	21,850
Miscellaneous revenue by Executive Engineer	—405*
Net demand ...	44,986
Recovered on account of guarantee or water-rate	21,070
Recovered by Executive Engineer	—405
Total Collections ...	20,665
Balance on 31st April 1888	24,321

* A minus quantity made in rectification of an error in the previous year's accounts.

The results of the collections is considered by the Commissioner to be unsatisfactory, and guarantors have been called on to pay the balance of their dues without further delay.

Expiry of guarantee.

99. A proposal has been made to increase the efficiency of these canals by the construction of a masonry dam to force the water of the Sota into the Gundaki channel, at a cost to Government of Rs. 48,307. The expediency of incurring this expenditure will be considered with that of renewing the existing guarantee, which will shortly expire. The financial results shown by the guarantee-system have not been encouraging, and it is clear that, if that system is to be continued, the conditions on which it is framed will require to be considerably remodelled.

There have been several changes in the guarantors' *dehats*, the particulars of which are given by the Superintending Engineer in his report, but it appears unnecessary to include them in this note.

NUDDEA RIVERS.

100. No capital or revenue accounts are kept for these works. It was stated in last year's revenue report that a proposal to transfer the management of these rivers from the Board of Revenue to the Public Works Department was under consideration. The transfer has since been accomplished, though not till the close of the year under report, during which the administration remained in the hands of the Board, through whom, as in previous years, the annual account of the revenue has been furnished to Government.

Revenue and Expenditure.

101. The receipts and working expenses for the past eight years are shown in the following statement:—

Year.	Receipts			Working expenses	Net revenue.
	Navigation	Miscellaneous.	Total.		
	Rs	Rs.	Rs.	Rs.	Rs
1880-81	2 31,957	676	2,32,633	1,21,846	1,10,787
1881-82	2,10,041	1,179	2,11,220	2,70,720	(−)59,500
1882-83	1,82 351	616	1,82 967	1,18 231	64,736
1883-84	2,00 908	1,926	2,02 834	1,22 378	80,456
1884 85	1,94,981	476	1,95,457	97,335	98 122
1885-86	1 83 382	399	1,83 781	77,668	1,06 113
1886 87 ...	2,02,707	543	2,03,250	60,213	1 43,037
1887-88	1,98 318	357	1,98,675	92,022	1,06,653

Thus, to compare with the previous year, there is a falling off of Rs. 4,575, or 2·1 per cent., in the receipts, coupled with a rise of Rs. 31,809, or 52 per cent., in the working expenses. The net revenue has consequently declined by Rs. 36,384, or 25 per cent.

Traffic.

102. The Administration Report submitted by the Commissioner of the Presidency Division through the Board of Revenue gives the following details of the number of boats which plied on the Nuddea rivers during the year compared with the year 1886-87:—

Year.	Number of Boats.					Number of Steamers and Flats.		Number of rafts, &c	Total number
	Below 100 maunds	Above 100 maunds	Passenger boats.	Empty boats.	Total boats.	Steamers	Flats		
1886 87 ..	1,284	29,919	23,951	11,192	65,640	354	121	755	66,870
1887-88 ..	1,789	28,711	22,433	11,994	64,927	351	81	560	65,919

The traffic during the last two years is shown in the following statement, of which the figures are taken from the monthly traffic returns:—

Year.	Number of boats.	Tonnage of boats.	Value of cargo.	Tollage (assessed or earnings).
	No.	Tons.	Rs.	Rs.
1886-87	66,313	828,539	3 57,12,518	2,02,611
1887-88	65,319	793,847	3,41,40,361	1,98,274

VALUE OF CROPS.

113. The approximate value of crops irrigated by Major Irrigation Works during the last two years is shown below:—

Canals.	1886-87.		1887-88.	
	Area irrigated.	Value of crops.	Area irrigated.	Value of crops.
	Acres.	Rs.	Acres.	Rs.
Orissa Canals	77,709	9,75,447	109,506	12,88,956
Midnapore Canal	69,762	15,34,764	65,864	13,17,280
Sone Canals	268,204	67,43,580	315,380	63,13,397
Total ...	415,675	92,53,791	490,750	89,19,633

It will be noticed that whereas there has been an increase in the area of over 75,000 acres, the value of the crops has fallen by Rs. 3,34,000, and further that this state of affairs is chiefly due to the figures for the Sone Canals, where, with an increase in the area of more than 47,000 acres, there is a decrease in the value of Rs. 4,30,000. It is quite possible for this to be the case even under ordinary fluctuations in the market price, but an analysis of the divisional figures gives the following somewhat curious results as regards the comparative values per acre of the chief crops in the three divisions:—

Crops.	Rates per Acre.					
	1886-87.			1887-88.		
	Eastern Sone.	Arrah.	Buxar.	Eastern Sone.	Arrah.	Buxar.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Sugarcane	7 2	100	100	3·6	40	100
Wheat	6·5	20	17·2	34	7·5	16·9
Barley	11·2	15	15	22 5	12 5	15
Rice	10·8	15·4	20	24	15	20
Miscellaneous cereals	6	15	25	12·5	12	14
Opium	375	35	50	75	40	50

The above rates, taken in combination with the areas of the respective crops, show that the curious diminution in value is due chiefly to the lower rate for sugarcane in the Arrah Division and for opium in the Eastern Sone Division. Considering the general steadiness of the rates in the Arrah and Buxar Divisions, the fluctuations in the Eastern Sone appear to call for explanation, as do the differences in the rates in the three divisions for sugarcane and opium. The Superintending Engineer's attention will be called to the matter, for, looking at this variety of rates, Statement III E cannot be considered trustworthy.

PLANTATIONS.

114. The state of the canal plantations on the major works is shown in the statement below:—

Canals.	1886-87.			1887-88.		
	Trees 12 feet high and above.	Saplings between 4 and 12 feet.	Seedlings.	Trees 12 feet high and above.	Saplings between 4 and 12 feet.	Seedlings.
	No.	No.	No.	No.	No.	No.
Orissa Canals ...	50,737	28,148	68,719	46,329	23,039	59,459
Midnapore Canal ...	5,023	5,109	4,452	6,770	4,795	4,822
Hidgellee Tidal Canal	942	4,316	2,780	1,172	3 875	3,121
Sone Canals ...	106,637	59,996	113,939	105,476	58,373	132,011
Total ...	163,339	97,569	189,890	159,747	90,082	199,413

The falling off of upwards of 18,000 trees on the Orissa Canals is ascribed to injury caused by excessive heat, storms, and white-ants

NAVIGATION RECEIPTS.

115. The following table shows the total of toll collections on the canals in Bengal, distinguishing between canals solely for navigation and those for irrigation and navigation, with percentage of cost of establishment for collection and cost of measuring each boat:—

	TOLL COLLECTIONS.		PERCENTAGE OF CHARGES FOR COLLECTION TO AMOUNT COLLECTED.		* COST OF MEASURING EACH BOAT.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
Works partly for Irrigation and partly for Navigation.	Rs.	Rs.	Rs.	Rs.	*Annas.	Annas.
Orissa Canals	58,664	66,628	15·5	13·7	10·1	5·8
Midnapore Canal	1,09,693	1,26,574	6·9	6 1	2·6	2·5
Sone Canals	49,665	50.984	29·2	28·0	27·1	28 2
Total ...	2,18,022	2,44,186	14·3	12·7	7·2	6·0
Works for Navigation only.						
Hidgellee Tidal Canal ...	51.904	40,406	·5 8	7·4	2·7	3 5
Calcutta and Eastern Canals ...	4.73,193*	5.71.872*	8·9	6 8	4·6	3 7
Orissa Coast Canal ...	28,587	52,828	7 6	8·6	3·8	6·0
Nuddea Rivers	2,02,707*	1,98,318*	11·1	11·1	5·5	5·4
Total ...	7,56,391	8,63,424	9·3	7·9	4·7	4·2
GRAND TOTAL ...	9 74,413	11,07,610	......	......	......	......

* Do not include ferry tolls or miscellaneous receipts.

In the case of the canals for irrigation and navigation there is an increase in the toll collections of some Rs. 26,000, which is distributed over all the canals, the Orissa and Midnapore, however, being the chief contributors, the receipts having more than recovered the falling off which 1886-87 showed as compared with 1885-86. The toll collections under canals for navigation only show an increase of Rs. 1,07,000, the Calcutta and Eastern Canals being accountable for nearly 1 lakh of this and the Orissa Coast Canal for the remainder, having nearly doubled its income of the previous year. This increase, however, is reduced by the falling off in the other two canals. In the percentage of charges for collection on amount collected, and in the cost of measuring each boat, there is on the whole an improvement. The retrogression in the case of the Hidgellee Tidal Canal was due to the diminution of income caused by the closure, the establishment having to be continued, whereas that on the Orissa Coast Canal is owing to the canal being still in its infancy, whilst a full establishment has to be maintained.

COMMITTEE OF ENQUIRY, SONE CANAL.

116. A most noteworthy event of the year was the agitation on the Sone Canals, which resulted in the appointment of a Committee to enquire into the administration of those canals. The Committee duly submitted its report, which is still under consideration, it having been considered desirable, on account of the procedure adopted by the Committee who had only a very limited time allowed to them, to supplement their enquiry by further detailed reports and investigation as to much of the evidence placed before the Committee, which reports and investigations are only now approaching completion. It would therefore be premature to make any remarks upon the report of the Committee, which will be dealt with on a future occasion. In the meantime it appears only necessary to note briefly some of the effects produced by the appointment of the Committee.

Firstly, there is little doubt that it caused the cultivators to have an impression that rates were to be reduced, and that with retrospective effect, even to the extent of exempting them from the payment of arrears. Prompt payment was a thing therefore to be avoided, if possible, and the extensive failure of the sugarcane crop in many cases rendered payments difficult. The collections were in consequence considerably retarded, and to these two causes principally may be ascribed the falling off in the receipts and

the large increase in the outstanding balance on the Sone Canals of some Rs. 1,80,000 over the opening balance of the year. In a lesser degree the falling off in the receipts is due to the smaller area irrigated in the previous year. A second result was a large increase in the number of objections to assessment. Neither of these effects were unforeseen.

On the other hand, the agitation and consequent Committee have been undoubtedly beneficial to the establishment, and on this point I would make the following quotation from the report of the Superintending Engineer :—

"Apart from the report, the proceedings of the Irrigation Committee have led irrigation officers to carefully enquire into apparently well-grounded causes of complaint, and, as far as possible, to remedy them. Special care is being taken not to assess unauthorised irrigation, except on the fullest enquiry, the joint liability system in the case of five-years' leases has been nearly if not altogether abandoned, and a few five-years' leases which were entered into, and have proved unprofitable to the cultivators, have been cancelled. Coercive measures in realizing water-rates have been sparingly resorted to; in the Gya district there was not a single certificate case."

The agitation has to a great extent subsided, and the demand for long leases, except in one of the pergunnahs, has again become general. The crops of the present year promise to be good, and if they are so, there should be no real difficulty in realising the balances. In fact, good progress has been made in this particular already. Demand statements are being submitted at earlier dates, and this will permit of greater promptitude in realising the dues, and thus prevent arrears from accumulating. Another matter which is receiving considerable attention is the question of improving the village channels.

117. The date for the submission of revenue reports to the office of the Chief Engineer is the 15th September. The following statement shows the dates when the different reports were received :—

		In 1887.	In 1888.
Orissa Circle	Commissioner's report	21st September	26th October.
	Superintending Engineer's report	26th ditto	3rd ditto.
South-Western Circle	Commissioner's report	8th ditto	24th September.
	Superintending Engineer's report	26th October	Ditto.
Sone Circle	Commissioner's report	15th September	6th October.
	Superintending Engineer's report	Ditto	17th September

The reports were punctual with the exception of that of the Commissioner of the Orissa Division. The Finance and Administrative Accounts of the year 1887-88 were not received from the Examiner until the 4th September.

The delay in the submission of this note is to be regretted, but there has been a considerable increase to the work in this branch, and this combined with changes of officers has materially retarded its compilation.

C. W. I. HARRISON, LT.-COL., R.E.,
Offg. Chief Engineer.

The 4th March 1889.

IA.

PUBLIC WORKS DEPARTMENT.

STATEMENT OF CANALS IN THE PROVINCE OF BENGAL.

	Orissa Canals.			Midnapore Canal	Hidgellee Tidal Canal.	Sone Canals.			Sarun Canals.	Calcutta and Eastern Canals.	Orissa Coast Canal.
	Mahanuddy series.	Brahmini-Byturni series.	Total.			Eastern Main Canal series.	Western Main Canal series.	Total.			
Source of supply of water ...	River Mahanuddy.	Rivers Brahmini and Byturni.		River Cossyé.	Rivers Rupnarain and Russulpore.	River Sone.			River Gunduck	River Hooghly and Soonderband creeks.	Rivers Russulpore, Subunreka, Panchpara, Burrabolong and Metai.
Minimum discharge of river—cubic feet per second ... Kharif ...	Not observed	1,524	1,524	700	Tidal canal for navigation only.	5,257, October 22nd, 1883.			5,082	Tidal canal for navigation only.	Tidal canal for navigation only.
Rabi ..	3,210	912	4,122	200		1,869, February 16th, 1884.					
Hot-weather	404	418	822	100		447, May 27th, 1879.					
Maximum discharge of canal—cubic feet per second	1,830	244·02	2.074·02	1,400		1,613	4,342	5,955	1,084		
Average annual rainfall ... Inches	47·00	49 94	48·47	52·09		41·32	40·70	40·89	41·17		
Gross area commanded ... Acres	314.921	67,500	412 421	180,000		406,155	1,322,354	1,728 509	64,000		
Culturable ditto ... "	439,951	137,500	577,451	173,160		317,307	1,033,089	1,350,396	60,000		
Area irrigable by complete project .. .. "	439,951	137,500	577 451	125,000		309,040	707,360	1,016,400	60.000		
Area irrigable at present ... "	205,017	21,770	226.787	125,000		309,040	707,360	1,016,400	30,000		
Sanctioned estimate—											
Direct charges ... Rs.	3,13.96.220		3,13,96,220	83 16,768	17,72,699	2 78 88,697		2,78.88.697	6,63 521	......	34 45,742
Indirect do. ... "	9,19,625		9,19,625	1,84 215	44,807	13,99,607		13,99,607	33,111	......	1.56,555
Interest during construction ... ... "	1,21,54,723		1.21,54,723	39,60.294	2.17 460	29,67,227		29,67,227	......	......	... ..
Total estimate ... "	4,44.70,568		4.44.70.568	1,23.61,277	20,34 966	3.22,55.531		3 22,55,531	6,96,632	(a)	36,02 297

Expenditure to end of 1887-88—												
Direct charges ...	Rs.	2,29,13,883		2,29,13,883	82,63,345	17,95,489	2,51,36,239		2,51,36,239	6,69,230	51,79,566	40,56,262
Indirect do. ..	"	5,16,202		5,16,202	1,83,658	44,807	8,95,662		8,95,662	27,183	59,550	98,861
Interest during construction	"	1,28,54,084		1,28,54,084	50,87,143	2,17,460	1,25,23,888		1,25,23,888	......	......	......
Total expenditure ...	"	3,62,84,169		3,62,84,169	1,35,34,146	20,57,756	3,85,55,789		3,85,55,789	6,96,413	52,39,116	(b) 41,55,123
Works as now sanctioned—												
Main canals, irrigation ..	Miles	138¼	31½	170¼	(c) 53	(c) 29	86¼	132¼	218½	6⅓	27	(c) 99
Branch do., do. ..	"	107¾	6	113	19	Nil	Nil	145¼	148¾	12½	Nil	Nil
Distributaries ...	"	1,763	381	2,117	301 89	Nil	358	813	1,171	Nil	Nil	Nil
Of above—												
Navigable channels ...	Miles	159¾	37½	197¼	72	29	86¼	132¼	218½	Nil	27	99
Works completed at end of 1887-88—												
Main canals, irrigation ...	Miles	114	31½	115½	53	29	86¼	132¼	218⅓	6⅓	27	97½
Branch do., do. ...	"	87		87	19	Nil	Nil	148¾	118¾	12½	Nil	Nil
Distributaries ...	"	706¼	11¾	718	283 19	Nil	358	808¾	1,166¼	Nil	Nil	Nil
Of above—												
Navigable channels ...	Miles	139	31½	170½	72	29	86½	132¼	218⅓	Nil	27	97½

(a) There is no general sanctioned estimate for this project.
(b) Includes Rs. 8,66,000 expended from famine relief funds.
(c) Includes length of river crossings.

I

PUBLIC WORKS

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

Realisations under main heads of

Irrigation Works.	Revenue (actual receipts). Irrigation. Water-rates directly paid.	Irrigation. Share of land revenue.	Irrigation. Total.	Navigation.	Plantations and land.	Water power.	Miscellaneous.	Total	Refunds of revenue.	(a) Gross revenue less refunds.
1	2	3	4	5	6	7	8	9	10	11
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.
Major Irrigation Works.										
Orissa project	1,37,869	... ..	1,37,869	71,004	1,131	. ..	13,040	2,23,044	365	2,22,679
Midnapore canal	90,837	......	90,837	1,26,574	44	......	16,923	2,34,378	453	2,33,925
Tidal canal	... .	.. . .	. ..	40,406	70	..	1,382	41,858	.....	41,858
Sone project	5,19,586	... ..	5,19,586	55,904	394	708	27,357	6,03,949	15,331	5,88,618
Total	7,48,292	. . .	7,48,292	2,93,888	1,639	708	58,702	11,03,229	16,149	10,87,080
Minor Works and Navigation.										
Tirhoot project	..	.. ...	. ....	......	......	......	. .	. .	...	.. .
Damoodur project	....	. ..		...	... .	. ...	..... .	.. .	.	... .
Sarun project	21,070	......	21,070	... ..	......	......	*—405*	20,665	......	20,665
Orissa Coast canal	. ...	......	. .	52,828	...	......	1,026	53,854	17	53,837
Calcutta and Eastern canals	.... .	......	......	5,74,766	304	......	4,864	5,79,934	... .	5,79,934
Total ...	21,070	.. ...	21,070	6,27,594	304	......	5,485	6,54,453	17	6,54,436
Grand Total ..	7,69,362	.. ...	7,69,362	9,21,482	1,943	708	64,187	17,57,682	16,166	17,41,516

(a) Irrigation revenue officers specially

Note.—The charges for "Direction" and "Executive" establishment have been equally

C.

DEPARTMENT, BENGAL.

WORKS IN BENGAL FOR THE YEAR ENDING 31st MARCH 1888.

Revenue and Working expenses.

WORKING EXPENSES.																	
Revenue management.					Maintenance of works.												
Establishment.				Total revenue management.	Establishment.				Works.	Repairs.	Sundries.	Tools and plant.	Plantations.	Total cost of maintenance.	Indirect charges.	Grand total working expenses.	Net revenue.
Direction.	Executive.	Navigation.	Civil officers. (a)		Direction.	Executive.	Medical.	Total.									
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rs	Rs.	Rs.	Rs	Rs	Rs	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.
7,775	41,301	15,125	40,300	1,04,501	7,775	41,302	.	49,077	..	3,09,110	.	16,391	1,870	3,76,448	21,501	5,02,450	*−2,79,771*
3,279	19,951	7,730	22,707	53,789	3,270	19,955		23,231		1,30,161	...	31,409	1,020	1,85,824	10,783	2,50,396	*−16,471*
1,198	4,729	3,007	...	8,934	1,198	4,730		5,928	....	47,410		2,105	518	55,961	2,081	66,976	*−25,118*
7,853	97,260	14,308	1,35,243	2,54,664	7,853	97,261		1,05,114	5,532	3,01,270		28,221	7,178	4,47,315	50,369	7,52,348	*−1,63,730*
20,105	1,63,244	40,199	1,98,340	4 21,888	20,105	1,63,248	..	1,83,353	5,532	7,87,951		78,126	10,586	10,65,548	84,734	15,72,170	*−4,85,090*
..	..		..		.		.	......	...	.. .	.	.	......	.. .	.		... ..
....	...	. ...		.. ..	...			...	......	.	..	. . .	. .	.	.	. .	.
465	4,094	.....	. ..	4,559	465	4,095	...	4,560	.....	18,572	...	400	29	23,561	1,277	29,397	*−8,739*
1,336	5,808	4,559	. ...	11,703	1,336	5,809		7,145	.	53,277	...	8,743	......	69,165	2,639	83,507	*−29,670*
2,650	21,974	38,920	....	63,544	2,650	21,974	...	24,624	1,478	1,04,125		18,139	402	1,48,768	12,311	2,24,656	3,75,278
4,451	31,876	43,479	......	79,806	4,451	31,378		36,329	1,478	1,75,074	..	27,282	431	2,41,494	16,200	3,37,560	3,16,876
24,556	1,95,120	83,678	1,98,840	5,01,694	24,556	1,95,126	...	2,19,682	7,010	9,63,925		1,05,408	11,017	12,07 042	1,00,934	19,09,730	*−1,68,214*

employed in collection of revenue.
(approximately) apportioned under the heads "Revenue management" and "Maintenance."

ID.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF TRAFFIC ON CANALS IN BENGAL DURING THE YEAR 1887-88.

		Orissa Canals.	Midnapore Canal.	Hidgellee Tidal Canal.	Sone Canals.	Calcutta and Eastern Canals.	Orissa Coast Canal.	Total.
Length of canal open for navigation	Miles	170½	72	29	218½	27*	97½	614½
Receipts—Tollage on private boats ...	Rs.	54,707	105,222	40,128	35 980	5,71,656	52,153	8,59,846
" Government boats	"	8,659	515	89	4,350	......	491	14,104
" rafts ...	"	3,262	2,723	189	10,654	216	184	17,228
Carrying operations or transport services } Government boats	"	4 376	.. ...	......	4,920	... ..	.. ...	9,296
Fines and Sundries	"	. ...	18,114	1,452	......	8,062	1,026	28,654
Total receipts ...	"	71,004	1,26,574	41,8.8	55,904	5,79,934	53,851	9,29,128
Maintenance charges, including special navigation establishment ...	"	27,766	31,329	66,976	35,356	2,24,656	83,524	4,69,607
Net revenue of year	"	43,238	95 245	(—)25,118	2 ,548	3,55,278	(—)29,670	4,59,521
Total number of boats plying cargo	No.	10,780	19,495	12,516	4,547	107,890	10,902	166,130
" " passenger	"	1,304	13,348	861	529	7,453	1,214	24,709
Total registered tonnage of boats by canal measurement, cargo ..	Tons	143,055	277,083	119,283	71,243	2,817,257	114,521	3,542,412
Total registered tonnage of boats by canal measurement, passenger ...	"	22,941	63,005	5,620	12 437	19,918	12,318	146,239
Ton mileage—Up ...		1,508,941	5,218,513	1,364,890	1,537 716	... .	1,811,897	. ...
Down ..		2,008,898	2,931,644	908 836	3,097,068	. ..	1,305,329	.
Total .		3,517,839	8,180,157	2,273,726	4 634,814	. ...	3,117,226	......
Estimated value of cargoes—Up	Rs	23,58,430	64,98,429	11,40,178	21,03,012	5,63,68,382	11,37,058	6,96,05,489
Down .	..	25 79,690	52 28,251	14,63,129	32,57,462	71,53,352	10,19 468	2,07,01,352
Total ...	"	49,38,120	1,17,26,680	26,03,307	53,60,474	6,35,21,734	21,56,526	9,03,06,841
Number of passengers—Total ...	No.	58,188	160,567	11,951	46,171	46,727	29,704	353,308
Rafts, feet × feet × feet—Up	c. ft.	107,549	176,568	1,941	21,360	17,285	12,781	337,484
" " " Down ...	"	308,295	4,211	6,881	3,067,269	3,565	4,101	3,394,325
Total ...	"	415,844	180,782	8,822	3,088,629	20,850	16,882	3,731,809
Estimated value of rafts—Total ...	Rs.	93,973	118,164	10,014	3,20,034	40,759	8,175	5,91,147
Tollage on boats per ton per mile ...		3·45 pies	2 9 pies	3 3 pies	2·1 pies	.	3·3 pies	......
Tollage on rafts per 100 cubic feet		0 78 rupee	1 5 Rs.	2·14 Rs.	5·5 annas	1 Re.	1 08 Rs.	......

* This length is that of the canals in the immediate neighbourhood of Calcutta

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 16th March 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.				
		Western Districts.		
Burdwan Divn.	1	Burdwan Mar. 16, '89	Nil	Weather—seasonable. State and prospects of crops still very fair. The potato crop is extra good. Prices have again fallen at Burdwan to 21 seers per rupee, and are steady at 18 seers on an average for the district.
	2	Bankoora „ 16, '89	Nil	Weather—hot. *Rubbi* harvest nearly finished; average outturn 8 annas. Prices stationary.
	3	Birbhum „ 16, '89	Nil	The weather shows a tendency to rain. Prospects of crops continue good.
	4	Midnapur „ 16, '89	Nil	Weather—getting very warm. *Boro* crop is doing well. Fields are being ploughed in parts of the district.
	5	Hugli „ 16, '89	Nil	Weather—hot. Prospects of *boro dhan* good.
		Howrah „ 18, '89	Nil	Weather—seasonable. *Boro* crop doing well.
		Central Districts.		
Presidency Divn.	6	24-Perghs. Mar. 19, '89	Nil	Weather—hot and at times cloudy. Harvesting of *rubbi* crops over. Tillage continues. Manufacture of sugar going on.
	7	Nuddea „ 16, '89	Nil	Weather—seasonable. Harvesting of *rubbi* going on rapidly. Ploughing of land for next season's crop continues.
	8	Khoolna „ 16, '89	0·07	Weather—seasonable; days warm. Harvesting of *rubbi* continues. *Boro* paddy thriving.
	9	Jessore „ 16, '89	Nil	Weather—days hot and nights cool. Ploughing continues. Rain wanted for *dhan* and jute cultivation. Harvesting of *rubbi* crops going on.
	10	Moorshedabad „ 16, '89	Nil	Weather—getting warm daily; mornings fine and cool. Lands are being prepared for *aus*. *Rubbi* crops are being harvested.
Rajshahye Divn.	11	Dinagepur „ 16, '89	Nil	Weather—getting warm. Sugarcane is being cut and the yield is good. Prospects of winter crops fair.
	12	Rajshahye „ 16, '89	Nil	Weather—very hot. Cultivation of land going on for early crops. Pulses being harvested. Rice sells at 17 seers per rupee.
	13	Rungpur „ 16, '89	Nil	Weather—sultry during the day time with high westerly winds at constant intervals, cool at night. Paddy sowings are now completed. *Cheena* and *kawan* are also being sown largely. Rain is wanted
	14	Bogra „ 16, '89	Nil	Weather—dry and fine till 15th instant, when there was a slight storm after nightfall State and prospects of crops satisfactory. Sugarcane is still being crushed. Ploughing is going on. Common rice is selling at 21 seers a rupee.
	15	Pubna „ 16, '89	Nil	Weather—warm. *Rubbi* crops not doing well. Rain wanted. *Boro dhan* being sown.
	16	Darjeeling „ 16, '89	0·27	Rain has done much good. The crops both in head-quarters division and Silliguri are doing well. A heavy hailstorm reported from Kalimpong, damaging wheat and barley to some extent.
	17	Julpigoree „ 16, '89	Nil	Weather—days hot, nights and mornings cool. Wheat and tobacco are being gathered. Ploughing for *bhadoi* continues. No change in the price of rice.
		Eastern Districts.		
Dacca Divn.	18	Dacca Mar. 16, '89	0·11	Weather—days hot, nights cool. Ploughing for early rice and jute going on Sowing has commenced in low lands. *Boro* paddy thriving. Prospects of crops continue favourable. Rain is wanted.
	19	Furreedpur „ 16, '89	Nil	Weather—warm. Lands being prepared for *aus* and *amun* crops. Rain would be beneficial for sowings.
	20	Backergunge „ 14, '89	Nil	Weather—cool nights and mornings hot days. Prospects of crops fair. Rain is wanted.
	21	Mymensingh „ 15, '89	Nil	Weather—hot. Prospects of crops good. Rain wanted
Chittagong Divn.	22	Chittagong „ 19, '89	Nil	Weather—hot. Crops are suffering from want of rain Prices steady
	23	Noakholly „ 15, '89	Nil	Weather—seasonable. Harvesting of *rubbi* crops nearly finished Preparation of soil for *aus* crop going on. Rain is wanted
	24	Tipperah „ 14, '89	Nil	Weather—seasonable State and prospects of crops satisfactory.
	25	Chittagong Hill Tracts. „ 12, '89	Nil	Weather—cool at night, hot during day. *Jum* cutting continues. Tobacco and chillies doing well. Rain much wanted.
		Hill Tipperah „ 14, '89	Nil	Weather—warm. *Jum* cutting finished. Prospects of *boro* paddy and chillies in the plains fair.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.					
Patna Divn.	26	Patna	Mar. 16, '89	Nil	Weather—clear and warm. Prospects of *rubbi* generally favourable. Harvesting of *mussoor*, gram and mustard is almost completed, and wheat is being cut. Weather favourable to poppy. Prices stationary.
	27	Gya	„ 16, '89	Nil	Weather—hot. *Rubbi* being harvested and opium extracted.
	28	Shahabad	„ 16, '89	Nil	Weather—fine and hot. Reaping of wheat and barley has commenced. Weather favourable for collection of opium. *Cheena* is being sown and sugarcane planted. Prices stationary.
	29	Durbhunga	„ 16, '89	Nil	Weather—bright and hot. *Rubbi* crops are doing very well, being much improved by former rain and present favourable weather. Prices stationary.
	30	Mozufferpur	„ 16, '89	Nil	Weather—clear and warm. Harvesting of *rubbi* commenced An average outturn of 12 annas may be expected in the Hajeepore and Sudder sub-divisions and of 10 annas in Sitamurhi *Cheena* and *mung* coming up well. Indigo being sown. Collection of opium proceeding very satisfactorily
	31	Sarun	„ 16, '89	Nil	Weather—hot and seasonable. *Rubbi* harvesting going on; outturn about 14 annas expected. Poppy is a short crop of 12 annas. Indigo sowings are over and the crop is doing well.
	32	Chumparun	„ 16, '89	Nil	Weather—fair and warm; getting hot. Harvesting of *rubbi* going on. Opium extraction progressing. Indigo being sown. *Cheena* germinating freely, and germination coming on well. Prices stationary.
Bhagulpore Divn.	33	Monghyr	„ 16, '89	Nil	Weather—bright and hot. East wind prevailing since last three days. Harvesting of *rubbi* crops has commenced; outturn expected to be 12 annas.
	34	Bhagulpur	„ 16, '89	Nil	Weather—seasonable, but less west wind than usual. Harvesting of oilseeds and pulses continues. Standing crops fair. Prospects of *mohua* hopeful, but not yet assured. Mango blossoms not good. Prices fairly steady.
	35	Purneah	„ 16, '89	Nil	Weather—getting very warm; seasonable. The *rubbi* outturn will be a good one on the whole.
	36	Maldah	„ 16, '89	Nil	Weather—bright, warm and calm. Harvesting of *rubbi* crops commenced; about 12 annas outturn expected. *Boro* plants are still being planted and thriving. A shower of rain now would do good.
	37	Sonthal Perghs.	„ 16, '89	Nil	Weather—dry and warm. Reaping of *rubbi* proceeds. Prospects good. Sugarcane doing well. *Mohua* beginning to drop.
ORISSA.					
Orissa Divn.	38	Cuttack	„ 15, '89	Nil	Weather—hot and seasonable. *Dalua* rice in ear. Ploughing for *beali* and *saiad* rice has commenced in some places. Common rice sells at 17 seers 1 chittack per rupee in town.
	39	Pooree	„ 14, '89	Nil	Weather—seasonable. *Dalua* rice is in ear. *Mung* is in flower. *Kulthi* is being gathered. Common rice 17 seers 6 chittacks per rupee in the Sudder sub-division and 15 seers 6 chittacks in the Khoorda sub-division.
	40	Balasore	„ 15, '89	Nil	Weather—getting warmer. Rain very much wanted. Prices stationary.
CHOTA NAGPORE.					
South-West Frontier Agency.					
Chota Nagpore Divn.	41	Hazaribagh	Mar. 15, '89	Nil	Weather—seasonable; getting warm. *Rubbi* still being harvested; outturn 6 to 12 annas. Sugarcane doing well. *Mohua* beginning to fall in parts of the district. Prices as before.
	42	Lohardugga	„ 16, '89	Nil	Weather—getting warm. *Mohua* crop is reported to have suffered somewhat in Palamow owing to the weather being unusually cold during the week. *Rubbi* being threshed. Prices steady.
	43	Singbhoom	„ 15, '89	Nil	Weather—hot in the day, cold at night. The little *rubbi* left is being harvested. Prices stationary.
	44	Manbhoom	„ 16, '89	Nil	Weather—hot; cool nights. *Rubbi* being gathered; outturn varies from 8 to 12 annas. Prospects of *mohua* are not good; outturn estimated at 8 annas. Prices stationary.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 19th March 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of December, 1888.

IMPORTS INTO CALCUTTA.

Whence imported.	Food-grains: Rice and Paddy: Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Fibrous Products: Jute, raw.	Gunny bags †	Oil-seeds: Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar: Drained.	Undrained.	Tobacco: Unmanufactured.	Manufactured.
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Burdwan ...	1,09 656	5,358	1,13,005		468		1,13,473	855	8,645	2,801	162	440		110			3	15
Beerbhoom ..	90,466		90,466		2		90 468		6,790					180				
Midnapore ...	2,00,623	12 182	2,08,237		27		2,08 264	5,705	1,000	2 508			32	249			48	5
Hooghly ...	1,07,899	35,879	1,30,323	298	1,627	21*	1,32,160	1,25,737	650 551	21,298	838		2,9		932	3,208	6,714	227
24-Pergunnahs ...	2,08 268	14,613	2,17,357	57			2,17,414	2,33,114	249 691	120	220		803		4,191	37,973	3 16.	306
Nuddea ...	13,964	14	13,973	5,722	16,682	1,071	67,448	54,556	1,330	24,366	582		32	67		955	1,326	62
Khulna ...	22,385	19,910	34,848			99	34,947	24,204							100	17,350		
Jessore ...	18,814	7,525	23,517	9	1,960	85	25,571	18,524	429	174	200		8		278	8,304	1,001	246
Moorshedabad ..	5,636		5,636	2,387	4,221	366	12,610	5,013	400	4,179	81			201	234			5
Dinagepore .	14,183	100	14 246		825		15,071	50,8 3	282,130								74	
Rajshahye ...	1,625		1,625		7,418	15	9,088	55,842		1,183				127		58		
Rungpore ...	609	767	728				728	2,79,324	99,190		150		35				172	23,470
Bogra ..	18 855		18,855				18,855	27,407	210									
Pubna .	152		152		5,590		5,742	4,93,585	615,515	1,182	6,018							872
Darjeeling ..								24,650	216 860			14,919						
Julpigoree ...								1,10,193	214,565			14,061						658
Dacca .	7,397		7,397		2 731		10 128	5 47,088	3,840	491	2,608		650					
Furreedpore ..	3 417	2,575	5 026		4,754		9,780	2,89,709	630	2,275	804	19	112	1,127				438
Backergunge ...	2,56 298	500	2,56,610				2,56,610	5,663										
Mymensingh .	3,606		3 6 6	181	1,372		5,159	1,45,982		240	1,359							
Tipperah ..	14,218		14,218				14,218											
Chittagong	400		400				400					860	724					
Noakholly ..	17,650	225	17,791				17,791	640					400					
Total of Bengal .	11,16,011	99,208	11,78,016	8,654	77,607	1,657	12,65,934	23,28,454	2,351,537	60,817	14,022	30,308	3,055	2,061	5,735	67,848	12,504	26 334
BEHAR.																		
Patna ...	799		799	18,468	25,900	4,980	50,147	538	8,925	1,43,209	6,398		6	8	260	1,0 9	584	2,155
Gya ..				1, 86			1,586		770	22,073				6		1,281		145
Shahabad ..				20,780	5 519	191	26,790	445	770	10,169						1,741		4
Mozufferpore ..	360		360		2,400	1,526	3 986			2,101	977							
Durbhunga .				1,697	1,391		3 088		560	57 705	3,121					249	211	28
Sarun .				3,881	5,631	32	7 547	252	210	12,592	580					180	46	
Champarun	10		10		612	325	947			29,774						154		
Monghyr ..	568		568	5 153	16 668		22,189	1,159	665	7,113	696	9						1
Bhagulpore	162		162	6,522	1 914	4,185	15,781	450	385	18,131	15 117	1		9				
Purneah ..	2 278		2, 78	1,401	3 1 6	25	7,184	2,714	1, 4 0	6,845	2 376	27	38			38	2,518	
Maldah .	400		400	3 811	5,659	578	8, 08	29 772		1,334	300							
Sonthal Pergunnahs.	4		4	5,157	1,779	1,825	11,769		945	14,535	12,218			13	55			
Total of Behar ..	4 441		4,441	68,4	79,849	13,769	1,59,521	35, 31	26,630	3,25,420	41 583	276	44	70	315	4 668	3 562	2, 33
ORISSA.																		
Cuttack ..								2,592										
Balasore ..	34,428	1,151	35 15	51			35,389	17,602	2,150					18			46	
Total of Orissa ..	34,4 8	1,151	35,535	51			35,589	20 194	2,170					18			46	
CHOTA NAGPORE																		
Hazaribagh	2		2				2		1,225			667						
Manbhoom									525	105								
Total of Chota Nagpore.	2		2				2		1,750	105		667						
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	11,54,882	1,00,659	12,17,794	77,170	1,50,456	15,426	14,60,846	23,85,977	2,582,367	3,86,342	54,605	31,251	3,099	2,155	6,050	72,516	15,91	28,667
OTHER PROVINCES																		
Assam ..	1,576	3,5	1,810				1 810	27,318			17 226	94 187	4	10				
North-Western Provinces and Oudh	9		9	57,437	15,702	1,960	75,108		735	94,671	12,150	2, 83	1,18,666	21	2,523	693		3
Punjab	7		7	9,122	24,812	1,210	35,151					6 9	9,239	2				2
Central Provinces										681				1				
Rajputana States						8	8						4,725					
Bombay ..									2,335			1	12 481	1	2 450		1	4
Madras ...					5,390	656	6,246					1	5,708		7,066		21	1 7
Pondicherry .																	27	
Burmah ...					3,065		3,065		400				4,037					25
Sind ...																		1
Other places					25	16	41		27,250					1	15,494	18,512		6 0
Grand Total Imports Dec. 1888	11,56,474	1,01,0 4	12,19,620	1,13,729	1,99,650	19,276	15,82,275	24,11,295	2,413,287	4,81,694	83,961	1,28,388	1,55,890	2,194	53,783	91,721	16,15	2 1 1
Grand Total Imports Dec. 1887	17,84,980	167,707	18,27,334	2,20,468	5,10,227	27,747	26,03,776	18,52,3 0	2,915,647	7, 6,400	87,479	99,902	1,84,040	1, 526	15,61	88,754	1 116	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of December, 1888 was as follows :—

Exported from Calcutta—	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar Drained.	Undrained.	Tobacco Unmanufactured.	Manufactured.
To Indian ports, viz.,—																		
Bombay ..	2,04,868		2,04,868		15,491		2,20,359		23,65,450			318			600			
Other ports in Bombay	2,694		2,694				2,694		12,500									
Madras ...	670		679		17,177	1,398	19,254		127,066					58				3
Other ports in Madras ...	77,711		77,711	99	2,236		80,046		408 150				46	1	12			2
Burmah ...	5,838		5,838	4,113	15,144	4,635	29,730	167	1,653,400			77		12	770	2 8	14 161	3
Other Indian ports ...	12		12		867	4	883		173,350						410	625	1,165	1
Pondicherry ...				211	137		348		102,000									
Total of Inter-portal trade ...	2,91,802		2,91,802	4,423	51,052	6,037	3,53 314	167	4 840,516			395	46	71	1,822	863	15,32	1 1
To Foreign ports— United Kingdom	96,000		96,000	1,09,009	5,847		2,10,916	14,84,850	1,211,200	3,73,882	1	1,31,270	14,094	63				1
Other Foreign ports ...	3,93,385	834	3,93,006	3,689	17,605	15,180	4,30,680	5,49,706	8 827,516	2,44,619	31	5,05	40,554	954	152	114	53	1
Total of Foreign trade ...	4,89,445	834	4,89,966	1,12,698	23,452	15,180	6,41,596	20,34,556	10,038,716	6,18,501	32	1,36	54,648	1,017	152	114	53	1
Grand Total of Exports in Dec. 1888	7,81,247	834	7,81,768	1 17,121	74,501	21,517	9,94,910	20,34,723	14,879,226	6,18,501	32	1,36,720	54,694	1,088	1,974	977	15,86	2 5
Grand Total of Exports in Dec. 1887	13,39,010	7,898	13,43,948	94,460	3,04,26	14,080	17,57,343	24,61,602	13,077,808	9,20,142	...	1,57,83	42,9 8	20,866	1,91	27	18, 5	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of December, 1888.

IMPORTS INTO CALCUTTA.

Specification of Routes.	Food-grains. Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Fibrous Products. Jute, raw.	Gunny bags.	Oilseeds. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar. Drained.	Undrained.	Tobacco. Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	8,30,353	74,031	22,117	75,230	2,432	8,62,755	910,217	62,209	24,131	.	1,730	144	4,943	38,175	11,150	2,308
„ river steamers	27,073	404		1,116		4,34,907		1,190	16,848	90,505	73	141	......	... ..	12	5
„ rail { East Indian Railway	1,74,036	22,640	1,21,332	90,039	15,879	... .	35,455	4,06,880	30,525	4,341	1,32,605	559	694	5,382	591	363
„ rail { Eastern Bengal State Railway	35,754	467	223	24,565	293	8,96,505	1,423,415	14,294	3,497	32,621	493	1,331	108	5,006	172	25,813
„ road	50,917	3,141	57	.. .	... ..	2,00,536	11,600	16	... .	... ..	39	... ..	2,828	24,646	3,932	212
„ sea	32,341	351	... .	8,630	672	16,594	32,600	... .	.. .	861	20,950	19	25,310	18,512	289	783
Grand total of Imports in December { 1888 ...	11,56,474	1,01,034	1,43,720	1,09,630	19,276	24,11,295	2,413,287	4,81,694	83,961	1,28,388	1,55,890	2,194	33,783	91,721	16,155	20,484
Grand total of Imports in December { 1887 ...	17,84,980	67,767	2,29,468	5,10,227	27,747	18,52,330	2,945,647	7,56,400	87,479	90,902	1,84,040	1,526	45,611	88,754	43,446	

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of December, 1888.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian.	Salt.	Gunny bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	2,01,362	440	367	803	25,469	105,665
Beerbhoom ...	1,64,682	110	45	475	14,745	133,140
Midnapore ..	2,45,477	.	3,179	.	21,925	14,549
Hooghly ...	1,11,011	3,650	708	35	2,405	81,578
24-Pergunnahs ...	1,66,843	5,204	370	.	12,183	16,140
Nuddea ...	3,31,262	..	1,604	.. ...	23,107	26,509
Khulna .	87,590	.. ..	263	...	6,816	...
Jessore ..	1,10,6?7		831	...	17,235	445
Moorshedabad ..	64,523	3,081	69	8	9,223	5,992
Dinagepore ...	1,43,955		271	..	8,414	9,055
Rajshahye ...	1,11,799	... .	23	20	12,619	37,600
Rungpore ...	3,31,413	...	322	.. .	15,357	1,365
Bogra ..	1,44,081	.		5	5,849	27,615
Pubna ..	1,69,009	.	618	23	56,342	175
Darjeeling .	95,760	.. ..	214	..	7,143	735
Julpigoree ..	1,1?,542	.	177	6	10,540	350
Dacca .	9,27,549	. .	2,734	479	35,266	3,465
Furreedpore	4,85,585		945	. ..	21,764	840
Backergunge ..	1,78,250	.	641	.. ..	24,040	1,960
Mymensingh	1,09,179	.	31	.. ..	26,045	1,190
Tipperah ..			...	... ..	3,975	
Chittagong .	1,97,957	104	196	... ..	..	114,500
Noakholly .		...	...	...	5,475	... .
Total of Bengal	45,83,536	12,588	13,608	1,023	3,66,008	582,056
BEHAR.						
Patna ...	2,47,149	7,260	122	555	21,313	141,780
Gya ..	1,22,661	2,090	41	858	9,614	8,725
Shahabad ..	3,61,468	6,820	9	675	17,434	15,470
Mozufferpore ...	64,953		.....	168	11,128	2,345
Durbhunga .	4,82,832	..	18	555	41,987	14,045
Sarun ..	2,97,045	7,810	4	120	13,875	21,875
Chumparun ...	3,71,322	660	77	42	14,437	14,805
Monghyr ...	1,40,625	1,100	6	240	8,594	12,455
Bhagulpore ...	2,99,628	2,610	79	315	10,524	34,300
Purneah ..	1,87,992	1,100	214	457	4,105	3,675
Maldah .		.	....	..	17,037	
Sonthal Pergunnahs	2,67,309	2,860	115	921	23,765	32,865
Total of Behar ..	28,51,984	32,230	615	4,906	2,00,734	3 02,749
ORISSA.						
Cuttack	... ..	.	..	......	600	. .. .
Balasore ...	90,200		4,526	19	17,429	58,850
Total of Orissa ...	90,200	. ..	4,526	19	18,029	58,850

Whither exported.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian.	Salt.	Gunny bags.
CHOTA NAGPORE.	Rs.	Rs.	Mds.	Mds.	Mds.	No.
Hazaribagh	85,113	.	11	119	6,617	4,165
Manbhoom	1,49,562	1,320	148	1,115	6,608	2695
Total of Chota Nagpore .	2,34,675	1,320	159	1,234	13,225	6,860
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ..	77,60,395	46,138	18,938	8,082	5,97,993	951,406
OTHER PROVINCES.						
Assam . .	4,25,062	......	587	93	40,576	560
North-Western Provinces and Oudh	32,07,105	10 010	3,982	811	23,812	384,195
Punjab	9,95,211	6,930	957	5	. .	287,945
Central Provinces	33,?79	770	240	11	. ...	89,915
Rajputana States	46,935	880	139	9	.. .	24,570
Berar	. .	...	... ..	... ..	.	14,210
Nepal	756	..	. .	... .	..	140
Bombay	252	220	...	... ..	... ..	2,377,950
Madras	98,205	...	6?9	166	... .	533,816
Pondicherry	.	. ..	...	......	.. ..	102,000
Burmah	2,61,455	79	504	662	......	1,653,400
Other places	22,988	2,699	6	3,038	27	10,038,710
Grand Total of Exports in December } 1888 ...	1,29,41,943	67,726	26,012	12,877	6,62,408	16,458,817
Grand Total of Exports in December } 1887 ...	1,11,00,489	56,477	25,505	16,459	6,50,138	15,616,701

The Sea-borne Trade of Calcutta in these staples during the month of December, 1888 *was as follows*

Imported into Calcutta—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	1,09,23,653	......	15,356	... ..	5,37,117	... ..
Other Foreign ports ...	63,118	.....	627	. .	1,77,197	27,250
Total of Foreign Trade ...	1,09,86,771	.. ..	15,983	......	7,14,314	27,250
From Indian Ports—						
Bombay	4 717	2,18,725	331	13,260	59,477	2,500
Madras	24,916	42,216	.....	1,371	.. ..	......
Other ports in Madras ..	800	...	......	... ..	... .	......
Burmah . ..	4,071	950	4	...	2,000	400
Other Indian ports ...	1,500	...	24	23	......	2,450
Total of Interportal Trade ..	35,504	2,61,891	359	14,654	61,477	5,350
Grand Total of Imports in December { 1888	1,10,22,075	2,61 891	16,342	14,654	7,75,791	32,600
Grand Total of Imports in December { 1887	92,09,976	90,155	16,515	10,111	6,74,463	5,950

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of December, 1888.

Specification of Routes.	Cotton piece-goods. European.	Indian.	Cotton twist. European.	Indian.	Salt.	Gunny bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats ...	2,63,674	4,750	3,323	... .	2,01,138	122,757
„ river steamers ...	11,18,009	.	2,428	541	16,674	28,579
„ rail ... { East Indian Railway ...	79,50,852	55,090	6,534	8,327	2,57,583	1,332,835
„ rail ... { Eastern Bengal State Railway ...	27,57,321	..	7,230	94	77,787	90,195
„ road ...	1,81,282	4 104	676	30	3,665	5,225
„ sea ...	6,70,805	2,882	5,891	3,885	15,571	14,879,226
Grand Total of Exports in December ... { 1888 ...	1,29,41,943	67,726	26 012	12 877	6,62,408	16,458,817
Grand Total of Exports in December ... { 1887 .	1,11,00,489	56,477	25,505	16,459	6,50,138	15,616,701

STATISTICAL DEPARTMENT,
The 16*th March,* 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 10th to 16th March 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches	
March	10th	149 8	9·0	29·931	78·0	92 5	28·1	64·4	67 3	0 527	60 4	60	SW by W and WNW	61	Nil	Clear, ═, ⌂.
"	11th	118 8	10 1	·915	78 0	93·5	30 7	62·8	67 5	·536	60 9	60	WSW, SW and calm	63	"	Clear, ⌂.
"	12th	119 5	10 3	·901	79 4	93·7	26·3	67·4	68 9	·562	62 2	62	SW by W and NW .	77	"	Clear, ⌂.
"	13th	116 1	10 1	·914	79 6	91·7	23 8	67·9	73 3	·739	70 2	75	SW by W, SSW and calm.	91	"	Chiefly clear, ═, ⌂.
"	14th	115 5	10·0	·923	79 9	92 2	22 5	69 7	73 8	·755	70 8	76	SW by S and WSW	125	"	Chiefly clear ⌂.
"	15th	115 7	9 1	·915	81 1	92 6	22·4	70 2	71·0	·752	70 7	73	SSW and variable	95	"	Chiefly clear, ⌂.
"	16th	117 9	9 5	·908	81 1	90·5	18 9	71 6	75 2	·801	72·6	76	SW, SSW and S ...	88	"	Chiefly cloudy, o, ⌂.

	Inches.
The mean pressure of the seven days	29·915
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·835
	Hours.
The total number of hours of bright sunshine	69·0
The maximum possible number of hours of sunshine	83·4
	°
The mean temperature of the seven days	79 6
The average temperature of the corresponding period for 24 years, S. G.'s Office	79·7
The extreme variation of temperature	30 9
The maximum temperature	93 7
	Miles.
The highest velocity of the wind in one hour	12
	lbs.
The highest pressure of wind on one square foot	Not measureable.
	%
The mean relative humidity	69
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	68
	Inches.
The total fall of rain from 10th to 16th March 1889	Nil.
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·19
The total fall from 1st January to 16th March 1889	2 90
The average fall of the corresponding period for 24 years, S. G.'s Office ...	2·37

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, ═ fog, ⌂ dew.

A. Pedler,

For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 18th March 1889.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	30·004	30·016	—	SW	230	88 7	11th March	67·2	10th March	86 5*	73 4*	80·0*	—	78 5
		Gopalpore ..	29 977	30·027	+·044	NNW	346	89 2	11th & 13th March	72·8	10th ,,	86·5	74 9	80 7	+1 9	77 4
		False Point .	29·988	30·010	+·033	SW	278	92·0	11th ,,	65 5	10th & 11th March	88 8	70·1	79·5	—0 2	77 6
	Cuttack	Cuttack ..	29 939	30 023	+·055	Calm	99	101·9	13th ,,	65 8	12th ,,	99·8	68 7	84·3	+0·6	74 1
	Balasore	Balasore ..	29 957	30·017	+·036	SW	146 3	98·5	11th ,,	62·7	10th ,,	95 3	67·4	81 4	+2 8	74 8
South-West Bengal.	South-West Midnapore South 24-Pergunnahs	Saugor Island	29·984	30·010	+·043	S SW	309	90 7	11th ,,	76 0	9th ,,	88 3	77 1	82 7	+2 5	79 2
	Midnapore	Midnapore ..	29 855	30·010	+·042	S	58 2	99·8	14th ,,	65 2	11th & 12th March	98 2	67·1	82 7	+2·7	75·2
	24-Pergunnahs ... Howrah ... Hooghly ...	Calcutta ..	29·983	30·005	+ 040	South-westerly	79	93·5	12th & 13th March	62 8	11th ,,	91 9	66 8	79·4	—0 1	73 9
	Burdwan	Burdwan .	29·888	29·991	+ 028	Variable	38 8	90 7	14th ,,	61 4	9th ,,	97 3	64 5	80 9	+0·6	71 7
	Bankoora	Bankoora ...	29 675	29·984	—	W	66	99 1	14th & 15th March	64 9	11th ,,	97 3	67 0	82 2	—	74 3
	Beerbhoom ... West Burdwan ...	Raneegunge .	29·665	29·982	+·061	WNW	63·4	98·7	15th ,,	64 0	10th ,,	97 1	67 0	82 1	+2 5	74 4
	Moorshedabad	Berhampore	29 925	29·994	+·040	SW	51·4	96·7	14th ,,	61·2	10th ,,	94 8	63 2	79 0	+0 4	71·6
	Nuddea	Krishnaghur .	29 952	30·019	+·077	SSW & WSW	81 7	96 8	14th ,,	60 9	11th & 12th March	95 0	63 2	79 1	+1·3	74 4
	Jessore ... Khoolna ...	Jessore ..	29·970	30·011	+ 018	Calm	51·7	96·8	11th & 15th March	61 5	12th ,,	94 9	64 8	79 9	0	74 1
East Bengal.	Chittagong .. .	Chittagong	29·942	30 035	+·037	Calm	66 1	92·2	11th & 13th March	63 5	10th ,,	91 1	66 3	78 7	+2 2	72 0
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ..	30 003	30 016	+ 059	South-westerly	65·1	94·3	14th March	63 6	9th ,,	91·7	66 2	79 0	+2 0	73 0
	Noakholly	Noakholly ..	29 981	30·025	+·043	Calm	80 2	91 3	13th, 14th & 15th March	61·2	10th ,,	89·4	63 7	76 6	+0 4	75 3
	Furreedpore	Furreedpore	29 972	30·013	+ 015	S	67	86 0	14th ,,	58 5	12th ,,	84 6	61 8	75·2	—3 5	72·9
	Dacca	Dacca ..	29 983	30·006	+ 039	SW	43 9	97·1	14th ,,	64 7	9th ,,	94 8	65 0	79 9	+1·1	75·1
	Commillah	Commillah ..	29·984	30·021	+ 054	S	23·8	95 3	13th & 15th March	61 9	10th & 11th March	94 2	64 3	79 2	+3 7	70 4
	Mymensingh	Mymensingh .	29 946	30 006	+ 029	ESE	82 6	92 3	13th ,,	59 6	12th ,,	90 9	62 3	76 6	+3 8	69 0
North Bengal.	Bogra	Bogra ..	29 91[illegible]	29·978	+ 04[illegible]	E	42 8	95 9	14th ,,	58 4	10th ,,	93 4	61·3	77 4	+2 4	70 6
	Pubna	Serajgunge ..	29·939	29 988	+·131	Variable	34 3	96 5	14th ,,	56 3	10th ,,	93 8	59 0	76 4	+1·7	71 2
	Rajshahye	Rampore Beauleah.	29 916	29 988	+ 059	SSW	81 5	94 0	15th ,,	60 2	11th ,,	92 4	62 4	77 4	+2 6	72 2
	Maldah ..	Maldah* ..	29 917	30·001	—	NW	56·7	94 6	14th ,,	59 2	10th & 11th March	93 3*	60 4*	76 9*	—	73·8
	Dinagepore	Dinagepore ..	29 892	30 016	+ 078	NE	56	92 1	14th ,,	58 7	12th ,,	90 7	61 6	76 2	+1 8	73 4
	Rungpore	Rungpore ..	29·892	30 021	+ 061	ENE	55	91·8	14th ,,	58 0	12th ,,	90·1	61·0	75 6	+1·1	69 5
	Julpigoree ... Cooch Behar ...	Julpigoree ..	29·722	30 021	+ 066	Northerly	48·0	89 5	14th ,,	56 9	9th & 10th March	87 2	58 6	72 9	+2·0	69 0
	Darjeeling Hill Tracts ..	Darjeeling ..	23·064	—	+·075	E	152 4	58·8	12th ,,	41 1	15th ,,	57 1	43·2	50 2	+1·2	50·7
North Behar.	Purneah ... North Bhagulpore ...	Purneah ..	29 864	29 996	+·015	NE	46·6	92·2	15th ,,	57 5	10th & 11th March	90 1	60·4	75 2	+1·0	69 3
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ..	29 825	29 998	+·048	ENE	62	86 6	11th & 13th March	62·4	11th March	86·5	64·7	75·4	+1·1	71·2
	Chumparun	Motihari .	Complete observations not to hand.													
	Sarun	Chupra ..	29·796	29 995	+·077	Calm	37·2	85 5	15th ,,	60 4	10th ,,	?	62 8	?	?	73·0
South Behar.	Shahabad	Dehree ..	29·630	29 997	+ 053	SSW	194 8	96·8	15th ,,	64 5	9th ,,	95 5	66 0	80·8	+5 3	72·3
		Buxar .	29 748	29 998	+·059	W	117·4	95 4	14th ,,	61·9	10th & 11th March	93·4	63 7	78 5	+2 0	73·5
		Arrah .	29 783	29·987	+·060	W	43·7	95 4	14th ,,	58 8	9th ,,	93 6	61 9	77 8	+2·0	71·0
	Gya	Gya	29·629	30·020	+ 053	Calm	155·9	95·9	14th & 15th March	62 7	9th ,,	94 6	64 8	79 7	+1·7	73·0
	Patna	Bankipore ..	29 806	29 996	+·039	W	56 7	94·6	14th ,,	61 3	9th ,,	92 9	64 1	78·5	+2·7	73 5
	South Bhagulpore ... Monghyr	Bhagulpore ..	29·815	29·982	+·050	Calm	46	92·2	12th, 13th & 14th March	61·0	9th & 10th March	91 3	62 9	77·1	+1·8	71 5
	Sonthal Pergunnahs ...	Doomka ..	29·494	30·004	+·059	Calm	62 9	95·3	15th ,,	61·5	9th ,,	94·0	63 3	78 7	+1·2	75·7
Chota Nagpore.	Hazaribagh	Hazaribagh	27 986	30 015	+ 056	South-westerly	201·2	91·7	15th ,,	64·7	10th ,,	90 0	66·2	78 1	+3 6	76·1
	Lohardugga ... Manbhoom	Ranchee ..	27 845	29·990	+ ·050	Calm	148 7	92·5	14th ,,	61 7	9th ,,	90 0	65·4	78 2	+3·6	75·6
	Singbhoom	Chyebassa ...	29·239	30 018	+·071	SSW	24·3	101·0	15th ,,	63·0	14th ,,	97·6	65·4	81 5	+1·5	77·9

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 15th of March 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at co-operating station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
81	0·9	Nil	Nil	0·14	0·02	0·36	−0·34	44·77	56·87	−12·10	0·0	0·4	Pooree	Pooree	ORISSA.
63	0·6	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore		
84	1·3	Nil	—	—	—	—	—	—	—	—	—	—	False Point		
70	1·4	Nil	Nil	0·33	Nil	0·62	−0·62	53·11	53·42	−0·31	0·0	0·6	Cuttack	Cuttack	
71	0	Nil	0·05	0·28	0·05	0·49	−0·44	54·30	54·86	−0·56	0·2	0·5	Balasore	Balasore	
75	1·1	Nil	Nil	0·10	Nil	0·54	−0·54	56·69	64·31	−7·62	0·0	0·5	Saugor Island	South-West Midnapore; South 24-Pergunnahs	SOUTH-WEST BENGAL.
63	0·7	Nil	Nil	0·29	0·01	0·83	−0·82	65·27	53·40	+11·87	0·0	0·6	Midnapore	Midnapore	
84	1·3	Nil	0·01	0·20	0·37	0·70	−0·33	64·93	53·61	+11·32	0·1	0·6	Calcutta	24-Pergunnahs; Howrah; Hooghly	
65	0·4	Nil	Nil	0·19	0·30	0·64	−0·34	56·92	48·37	+8·55	0·0	0·6	Burdwan	Burdwan	
51	0·9	Nil	Nil	0·28	0·62	0·51	+0·11	54·02	53·46	+0·56	0·0	0·5	Bankoora	Bankoora	
51	0·4	Nil	Nil	0·17	0·76	0·35	+0·41	59·68	52·93	+6·75	0·0	0·5	Raneegunge	Beerbhoom; West Burdwan	
67	1·7	Nil	Nil	0·19	0·26	0·40	−0·14	49·96	51·75	−1·79	0·0	0·5	Berhampore	Moorshedabad	
69	1·4	Nil	0·18	0·30	0·81	0·73	+0·08	56·22	50·90	+5·32	0·4	0·5	Krishnaghur	Nuddea	
77	1·3	Nil	0·21	0·28	0·57	0·87	−0·30	45·69	55·22	−9·53	0·4	0·7	Jessore	Jessore; Khoolna	
77	3·1	Nil	Nil	0·08	0·10	0·85	−0·75	126·57	115·39	+11·18	0·0	0·3	Chittagong	Chittagong	EAST BENGAL.
			Nil	0·20	0·35	1·21	−0·86	74·05	83·75	−9·70	0·0	0·4	Demagiri	Chittagong Hill Tracts	
86	1·3	0·35	0·10	0·15	0·21	0·90	−0·69	73·73	79·00	−5·27	0·3	0·4	Barrisal	Backergunge	
85	3·1	Nil	Nil	0·41	0·94	1·78	−0·84	108·20	110·01	−1·81	0·0	0·7	Noakholly	Noakholly	
72	0	Nil	Nil	0·50	0·08	1·23	−1·15	48·50	58·51	−10·01	0·0	0·7	Furreedpore	Furreedpore	
74	2·3	Nil	0·03	0·75	0·05	1·29	−1·24	56·78	62·32	−5·54	0·3	0·8	Dacca	Dacca	
89	1·0	Nil	0·02	0·78	0·10	1·52	−1·42	63·13	71·90	−8·77	0·2	0·8	Commillah	Tipperah	
76	2·3	0·05	0·01	0·40	0·01	0·95	−0·94	67·48	69·20	−1·72	0·2	0·7	Mymensingh	Mymensingh	
67	0	Nil	0·01	0·08	0·02	0·37	−0·35	46·47	58·39	−11·92	0·2	0·4	Bogra	Bogra	NORTH BENGAL.
72	2·3	Nil	Nil	0·33	0·02	0·74	−0·72	42·49	55·20	−12·71	0·0	0·6	Serajgunge	Pubna	
61	0·9	Nil	Nil	0·17	0·03	0·40	−0·37	47·94	55·12	−7·18	0·0	0·5	Rampore Beauleah	Rajshahye	
56	0	Nil	Nil	0·07	0·02	0·20	−0·18	43·85	55·02	−11·17	0·0	0·3	Maldah	Maldah	
63	0·3	Nil	Nil	0·09	0·01	0·24	−0·23	49·51	58·12	−8·61	0·0	0·3	Dinagepore	Dinagepore	
76	0	Nil	Nil	0·26	Nil	0·53	−0·53	59·23	74·80	−15·57	0·0	0·5	Rungpore	Rungpore	
77	0	Nil	Nil	0·31	Nil	0·49	−0·49	89·95	112·03	−22·08	0·0	0·6	Julpigoree	Julpigoree; Cooch Behar	
80	3·1	0·27	0·49	0·60	0·49	0·77	−0·28	103·03	122·76	−19·73	1·5	0·8	Darjeeling	Darjeeling Hill Tracts	
72	0	Nil	Nil	0·08	Nil	0·24	−0·24	51·29	59·40	−8·11	0·0	0·4	Purneah	Purneah; North Bhagulpore	NORTH BEHAR.
			Nil	0·07	0·10	0·28	−0·18	43·97	44·24	−0·27	0·0	0·3	Mozufferpore	Mozufferpore	
64	0	Nil	Nil	0·14	0·06	0·23	−0·17	43·20	45·35	−2·15	0·0	0·4	Durbhunga	Durbhunga	
			Nil	0·06	0·09	0·28	−0·19	44·81	47·47	−2·66	0·0	0·3	Motihari	Chumparun	
60	0	Nil	Nil	0·03	0·30	0·11	+0·19	41·68	43·50	−1·82	0·0	0·2	Chupra	Sarun	
51	0	Nil											Dehree	Shahabad	SOUTH BEHAR.
47	0·1	Nil	Nil	0·10	0·67	0·29	+0·38	44·42	40·71	+3·71	0·0	0·3	Buxar		
55	0	Nil											Arrah		
47	0	Nil	Nil	0·10	0·42	0·22	+0·20	52·87	42·30	+10·57	0·0	0·3	Gya	Gya	
55	0	Nil	Nil	0·06	0·17	0·16	+0·01	51·21	41·90	+9·31	0·0	0·3	Bankipore	Patna	
63	0·7	Nil	Nil	0·06	0·08	0·18	−0·10	52·38	43·88	+8·50	0·0	0·3	Bhagulpore	South Bhagulpore; Monghyr	
53	0	Nil	Nil	0·14	0·16	0·33	−0·17	55·38	51·60	+3·78	0·0	0·4	Doomka	Sonthal Pergunnahs	
31	0·7	Nil	Nil	0·44	0·37	0·70	−0·33	58·59	51·73	+6·86	0·0	0·5	Hazaribagh	Hazaribagh	CHOTA NAGPORE.
48	0	Nil	Nil	0·35	0·20	0·56	−0·36	51·97	50·31	+1·66	0·0	0·5	Ranchi	Lohardugga	
			Nil	0·18	0·33	0·45	−0·12	48·14	48·35	−0·21	0·0	0·4		Manbhoom	
39	0	Nil	Nil	0·30	0·32	0·67	−0·35	41·30	53·06	−1. 76	0·0	0·6	Chyebassa	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall a the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of March 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 9th March 1889.	Sunday, 10th March.	Monday, 11th March.	Tuesday, 12th March.	Wednesday, 13th March.	Thursday, 14th March.	Friday, 15th March 1889.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	41·24	52·46
		Khoordah ...	...	...	...	...	...	...	...	Nil	Nil	0·07	0·19	44·55	57·32
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·43	37·00	51·93
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·49	56·28	66·09
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Cuttack ..	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·45	58·64	48·11
		Banki	...	...	...	...	...	...	...	Nil	Nil	Nil	0·90	45·08	52·32
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·72	53·01	57·77
		Kendrapara .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·45	46·59	54·58
		Jajpore .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·56	62·30	55·83
		Dharmsala ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57·48	?
		Salipore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Balasore ...	Chandbali ...	...	...	...	...	...	...	0·30	1	0·30	0·30	0·50	53·15	53·76
		Bhuddruck	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	40·39	53·39
		Sorah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·64	51·22	52·52
		Balasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·60	57·70	59·72
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	0·08	0·45	56·99	54·31
		Baripodah .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·36	56·06	54·84
SOUTH-WEST BENGAL.	Midnapore ..	Contai .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·30	52·48	62·96
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0·51	53·60	65·77
		Tumlook	...	...	...	...	...	...	...	Nil	Nil	Nil	1·07	67·20	53·49
		Midnapore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·80	70·22	50·64
		Ghattal .	...	...	...	...	...	...	...	Nil	Nil	0·03	0·57	58·39	56·01
		Kukrahaty .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	67·51	?
		Heria .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·81	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·03	?
		Garbeta .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	Nil	0·73	59·97	60·94
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57·30	?
		Alipore Jail	...	...	...	...	...	...	...	Nil	Nil	0·27	1·02	65·09	58·06
		Barrackpore	...	...	...	...	...	...	...	Nil	Nil	0·29	0·85	63·47	50·33
		Dum-Dum .	...	...	...	...	...	...	...	Nil	Nil	0·97	0·83	67·53	53·67
		Barasset ..	...	...	...	...	...	...	...	Nil	Nil	0·36	0·75	67·84	51·29
		Buseerhat ...	...	...	...	...	...	...	0·11	1	0·11	0·29	0·75	53·33	56·23
	Howrah ..	Howrah	...	...	...	...	...	...	...	Nil	Nil	0·54	0·85	68·89	54·04
		Mohesrika . (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	62·73	53·83
	Hooghly ..	Serampore	...	...	...	...	...	...	...	Nil	Nil	0·29	0·48	68·80	51·81
		Hooghly .	...	...	...	...	...	...	...	Nil	Nil	0·20	0·57	68·11	49·92
		Jehanabad ..	...	...	...	...	...	...	...	Nil	Nil	0·47	0·46	63·35	56·77
	Burdwan ...	Culna .	...	...	...	...	...	...	...	Nil	Nil	0·31	0·64	61·68	45·90
		Burdwan ..	...	...	...	...	...	...	...	Nil	Nil	0·16	0·72	47·37	49·38
		Cutwa .	...	...	...	...	...	...	...	Nil	Nil	0·43	0·54	61·71	49·47
		Raneegunge	...	...	...	...	...	...	...	Nil	Nil	0·48	0·42	59·32	50·09
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	0·19	?	44·80	?
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	Nil	Nil	0·57	0·82	50·06	53·00
		Bishenpore ...	...	...	...	...	...	...	...	Nil	Nil	1·68	0·53	57·33	52·73
		Mahara ...	...	...	...	...	...	...	...	Nil	Nil	0·24	0·21	51·95	52·67
		Khatra ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·48	56·69	55·18
		Indas ..	...	...	...	...	...	...	...	Nil	Nil	0·27	?	42·21	?
		Kotalpore ..	...	...	...	...	...	...	...	Nil	Nil	0·62	?	50·18	?
		Anda	...	...	...	...	...	...	...	Nil	Nil	0·50	?	30·51	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	0·23	?	58·26	?
		Raipore .	...	...	...	...	...	...	...	Nil	Nil	0·45	?	56·35	?
		Sonamukhi ..	...	...	...	...	...	...	...	Nil	Nil	1·08	?	47·88	?
	Beerbhoom ...	Bh. Soory ...	...	...	...	...	...	...	...	Nil	Nil	0·53	0·43	56·07	55·04
		Hetampore ..	...	...	...	...	...	...	...	Nil	Nil	0·41	0·13	40·83	55·37
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	1·59	0·41	73·47	52·08
		Bolpore ...	...	...	...	...	...	...	...	Nil	Nil	0·49	?	64·22	?
		Murarai	...	...	...	...	...	...	...	Nil			?		?
	Nuddea ...	Ranaghat ..	...	...	...	...	...	0·02	...	1	0·02	0·46	0·58	65·12	48·53
		Kishnaghur ..	...	...	...	...	...	...	...	Nil	Nil	0·43	0·49	70·36	47·27
		Chooadanga .	...	...	...	...	...	...	0·90	1	0·90	0·95	0·82	54·92	52·95
		Meherpore ...	...	...	...	...	...	...	...	Nil	Nil	2·21	0·94	53·13	49·47
		Kooshtea .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·87	37·56	56·34
	Khoolna ..	Satkhira ..	...	...	...	...	...	...	1·25	1	1·25	1·49	0·95	41·52	56·93
		Bagirhat ...	...	...	...	...	...	...	0·32	1	0·32	0·57	0·64	52·01	63·47
		Khoolna .	...	...	...	...	...	...	0·07	1	0·07	0·44	1·00	49·64	57·03
	Jessore ...	Narail ...	...	...	...	...	...	...	...	Nil	Nil	0·56	0·66	32·28	47·96
		Jessore ..	...	...	...	...	...	...	...	Nil	Nil	0·73	1·00	58·03	56·41
		Jhenidah .	...	...	...	...	...	...	...	Nil	Nil	0·15	1·15	37·09	55·63
		Magoorah ...	...	...	...	...	...	...	...	Nil	Nil	0·11	0·90	44·04	50·29
		Bongong ..	...	...	...	...	...	...	...	Nil	Nil	0·45	0·72	50·80	53·59
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	Nil	Nil	0·84	0·32	53·40	51·29
		Berhampore	...	...	...	...	...	...	...	Nil	Nil	0·27	0·59	43·69	52·90
		Lalbagh ...	...	...	...	...	...	...	...	Nil	Nil	0·19	0·37	49·11	51·94
		Azimgunge ...	...	...	...	...	...	...	...	Nil	Nil		0·41	?	52·32
		Jungipore ...	...	...	...	...	...	...	...	Nil	Nil	0·06	0·33	49·51	50·14
		Lalgola ...	...	...	...	...	...	...	...	Nil	Nil	0·06	0·37	54·29	52·23
		Jiagunge ...	...	...	...	...	...	...	...	Nil	Nil	0·14	?	49·40	?
		Akhriganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·08	?
		Pathabari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44·29	?
EAST BENGAL	Chittagong ...	Cox's Bazar .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·89	146·94	135·16
		Chittagong ...	...	...	...	...	...	...	...	Nil	Nil	0·10	0·81	106·08	95·73
		Kutubdia ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	117·52	?
		Satkanya ...	...	...	...	...	...	...	...	Nil	Nil	0·36	?	92·03	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	Nil	Nil	0·12	1·32	76·51	86·12
		Ruma ...	...	...	...	...	...	...	...	Nil	Nil	0·58	1·12	71·57	80·35
	Backergunge	Patuakhally ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·57	88·27	89·25
		Perozepore .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·79	62·31	72·18
		Burrisal ..	...	...	...	...	...	...	0·40	1	0·40	0·40	1·09	67·84	69·85
		Bhola ..	...	...	...	...	...	...	...	Nil	Nil	0·53	1·15	76·46	83·49

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of March 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 9th March.	Sunday, 10th March.	Monday, 11th March.	Tuesday, 12th March.	Wednesday, 13th March.	Thursday, 14th March.	Friday, 15th March.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ...	...	...	...	...	...	...	...	Nil	Nil	1·00	?	51·83	?
		Bauphal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	99·51	?
	Noakholly	Noakholly ..	...	...	...	...	...	...	...	Nil	Nil	1·13	1·02	109·67	110·33
		Fenny .	...	...	...	...	...	...	...	Nil	Nil	0·75	1·04	106·73	109·64
		Harishpore ...	...	...	...	...	...	...	...	Nil	Nil	0·40	?	131·06	?
		Ramganj ...	...	...	...	...	...	...	...	Nil	Nil	0·37	?	90·31	?
	Furreedpore	Madaripore ..	...	...	...	...	...	...	...	Nil	Nil	0·16	1·42	46·93	58·25
		Furreedpore..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·33	53·33	58·98
		Goalundo .	...	...	...	...	...	...	...	Nil	Nil	0·08	0·94	45·25	55·07
	Dacca ..	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0·04	1·94	61·72	73·41
		Dacca .	...	...	...	...	...	0·11	...	1	0·11	0·11	1·08	53·80	60·59
		Narainganje	...	...	...	...	...	...	...	Nil	Nil	0·03	1·54	63·96	62·33
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·62	47·63	51·79
		Joydebpore ..	...	...	...	...	...	...	...	Nil	Nil	0·01	?	59·50	?
	Hill Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·64	54·42	64·32
	Tipperah .	Comilla ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·46	70·17	78·35
		Chandpore .	...	...	...	...	...	...	...	Nil	Nil	0·30	0·98	58·57	79·80
		Brahmunberia	...	...	...	...	...	0·06	...	1	0·06	0·06	1·99	70·19	64·57
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·81	?
		Nasirnagar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	59·00	?
		Daudkandi .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·18	?
		Kasba ...	...	...	...	...	...	...	0·39	1	0·39	0·39	?	57·04	?
		Laksham ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	80·31	?
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	Nil	Nil	Nil	1·07	83·53	72·01
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·85	39·12	57·45
		Mymensingh	...	...	...	...	...	0·05	...	1	0·05	0·05	0·88	70·07	75·75
		Jamalpore .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·55	66·98	66·83
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	Nil	1·38	77·62	73·66
		Subornakhally	...	...	...	...	...	...	...	Nil	Nil	0·03	?	62·17	?
		Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	110·01	?
		Sherepore town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Dewanganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
NORTH BENGAL	Pubna	Pubna ...	...	...	...	...	...	...	...	Nil	Nil	0·04	0·90	40·87	55·82
		Serajgunge ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·57	44·09	54·45
	Bogra	Sherpore ...	...	...	...	...	...	...	...	Nil	Nil	0·03	0·47	43·71	59·16
		Nowkhilla ...	...	...	...	...	...	...	0·05	1	0·05	0·05	0·43	51·87	55·96
		Bogra ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·53	43·31	61·77
		Panchbibi ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	46·99	56·54
	Rajshahye	Beauleah ...	...	...	...	...	...	...	...	Nil	Nil	0·06	0·41	33·92	54·10
		Nattore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	61·98	56·20
		Naogaon ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39·65	?
		Lalpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·03	?
		Manda ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	82·84	?
	Maldah .	Maldah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	51·85	52·51
		Chanchal ...	...	...	...	...	...	...	...	Nil	Nil	0·03	0·12	35·79	57·16
		Gajol ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·53	?
		Sibganj ...	...	...	...	...	...	...	...	Nil	Nil	0·05	?	48·16	?
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	0·04	0·13	41·24	59·13
		Churamon .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	50·79	53·77
		Raigunge ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·17	53·54	59·98
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·10	59·79	64·90
		Baloorghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·28	42·13	55·92
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·02	?
	Rungpore ..	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	Nil	Nil	Nil	0·59	48·65	62·75
		Rungpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·62	55·30	75·64
		Kurigram ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·54	76·51	74·10
		Bagdogra (*Nilphamari*).	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	56·16	86·12
		Ulipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·68	?
	Julpigoree ..	Julpigoree ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·66	107·10	115·64
		Alipore Doar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	82·44	?
		Fallacotta .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	92·57	?
		Debiganj .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·28	?
		Bhogotpore (Nagrakatta).	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Cooch Behar.	Dinhatta .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	93·65	93·90
		Cooch Behar ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·45	94·45	119·26
		Mickligunge .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	78·95	108·33
		Matabhanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	76·21	117·57
	Darjeeling Hill	Buxa	...	...	...	0·09	...	...	...	1	0·09	0·09	1·01	160·38	194·08
		Silliguri .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·81	84·63	104·66
		Darjeeling ...	...	...	...	...	0·25	0·02	0·10	3	0·37	0·37	0·76	93·04	110·29
		Kalimpong ..	...	...	...	1·42	0·09	...	...	2	1·51	1·51	0·50	75·01	84·68
NORTH BEHAR	Purneah ...	Kissengunge.	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	49·56	71·20
		Arrareah .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·36	55·47	64·67
		Purneah	...	...	...	...	...	...	...	Nil	Nil	0·01	0·18	46·85	62·12
		Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Matiari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	
		Kaliaganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·67	?
	North Bhagulpore.	Maddepore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	61·06	50·47
		Soopool ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	45·53	48·93
		Protabganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·14	?
	Durbhunga	Tajpore ..	...	...	...	...	...	...	...	Nil	Nil	0·07	0·16	46·10	43·76
		Durbhunga ..	...	...	...	...	...	...	...	Nil	Nil	0·10	0·22	35·21	46·12
		Madhubani .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	44·32	45·91
		Bahera ..	...	...	...	...	...	...	...	Nil	Nil	0·05	?	55·51	?
		Roshera ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47·09	
	Mozufferpore	Sitamarhi ..	...	...	...	...	...	...	...	Nil	Nil	0·03	0·47	36·52	43·95
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	0·15	0·23	40·10	46·33
		Hajipore ..	...	...	...	...	...	...	...	Nil	Nil	0·10	0·13	49·12	42·63
		Paru ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·00	
		Mahua ..	...	...	...	...	...	...	...	Nil	Nil	0·10	?	40·21	?
		Bauhar ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·04	?
		Pupri ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	25·56	?
	Chumparun...	Motihari ...	...	...	...	...	...	...	...	Nil	Nil	0·04	0·26	40·63	45·38
		Bettiah ...	...	...	...	...	...	...	...	Nil	Nil	0·13	0·25	43·54	49·13
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	0·09	?	56·22	?
		Burhurwa ...	...	...	...	...	...	...	...	Nil	Nil	0·40	?	43·17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 15th of March 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday 9th March 1889.	Sunday, 10th March.	Monday, 11th March.	Tuesday, 12th March.	Wednesday, 13th March.	Thursday, 14th March.	Friday, 15th March.	TOTAL. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded	Sarun	Gopalgunge ...	...	...	...	...	...	...	.	Nil	Nil	0·30	0·02	41 34	44·52
		Sewan ...	...	..	...		...		.	Nil	Nil	0 25	0 11	44·44	44·58
		Chuprah .	..	. .	...		.. .		...	Nil	Nil	0·34	0 20	39·25	41·35
SOUTH BEHAR	Shahabad	Buxar ..	.	.	.	...	...	..	...	Nil	Nil	0 04	0 18	43 33	39 00
		Dehree ...	..	..	.	. ..	.	.	.. ..	Nil	Nil	1 15	0·50	46·13	39 71
		Bhubooah ...	..		...	.		...	...	Nil	Nil	0 75	0 45	42·22	42·37
		Sasseram .	..	...	...	.	. . .	. .	..	Nil	Nil	1·22	0 16	44·11	41·31
		Arrah .	...	.	. ..	....	...	..	.	Nil	Nil	0·18	0 19	46·34	40·94
		Mohaniah ...	.....	.	... ..	.	.... .	.	......	Nil	Nil	Nil	?	35·78	?
	Gya ..	Aurungabad..	.	.. ..	..	..	. . ..	... ..	.	Nil	Nil	0·27	0 22	55·14	43·47
		Gya .	.. ..	... ..	..	.....	......		...	Nil	Nil	0·80	0 18	56 01	43·35
		Nowadah ...	..	... ..	..	..	... .	.		Nil	Nil	0 35	0 26	51 18	40·82
		Jehanabad .		. ...	. ..	...	... .		.. ..	Nil	Nil	0·25	0·20	49·12	41·33
		Arwal ...	. ..	....	. ..		. .		. . .	Nil	Nil	0 23	?	40 68	?
		Daudnagar ..	..	. .	. ..	...		.....	. .	Nil	Nil	Nil	?	43 15	?
		Sherrghati ..	. . .	......	.. ..	. ..	... ..	.. ..	......	Nil	Nil	Nil	?	35·35	?
		Rajauli ..	. .		. .	..	... ..	.	..	Nil	Nil	Nil	?	28·58	?
		Pakri Barawan	..	....	.	...	... .	... .	...	Nil	Nil	0 20	?	38 91	?
	Patna ...	Patna	......		......	...		. .	. ..	Nil	Nil	0·25	0 11	43·51	42·47
		Dinapore .	. .	..	.	..	..		. ..	Nil	Nil	0 20	0 10	45·11	41·98
		Behar .	. .	. .	......	.. ..	.	...	.. ..	Nil	Nil	Nil	0 22	58 34	42 75
		Barrn .	.. ...	..	.		.. ..	..		Nil	Nil	0 20	0 19	59 61	40 41
		Bickram ...	.. .	..	..	. ..	...	. ..		Nil	Nil	0 13	?	40 43	?
		Hilsa .		...	..	...	...	. ..	. .	Nil	Nil	0·28	?	50·16	?
	Monghy	Begooserai ..	...	...	.	... ..	.....	......	. ...	Nil	Nil	0 15	0·12	51·73	40·85
		Monghyr .	. . ..	..	.	. .		.. ..	..	Nil	Nil	0 10	0 17	50 93	47 20
		Jamui ...	.	.....	..	... .	..	..	..	Nil	Nil	0·17	0 22	52 50	43 94
		Gogri ..	. ..	..	. ..	...	.	.. .	...	Nil	Nil	0 09	?	64 76	?
		Sheikpura ...	. ..	......	. ..	..		..	..	Nil	Nil	Nil	?	60 73	?
	South Bhagulpore.	Bhagulpore ..	.	.	..	..		...	......	Nil	Nil	Nil	0·16	56·73	42 84
		Banka ..	... ..	.	.	.	...	... ..	... .	Nil	Nil	Nil	0 21	44·01	45 49
		Kolgong ..	... ..	.	.	..	...	. .	.	Nil	Nil	Nil	?	53 84	?
	Sonthal Pergunnahs	Rajmehal ...	..	. ..	... ..	... ..	...	...	..	Nil	Nil	Nil	0 20	48 72	52 53
		Godda .	.		.	.	. . ..		.....	Nil	Nil	Nil	0 21	52 17	45 02
		Pakour	.	. .	.. ..	. ....	. .	..		Nil	Nil	0 04	0 27	65 17	55·89
		Nya Doomka	.. ..	. .. .	..	.	. . ..	.	.	Nil	Nil	0 19	0 40	54 62	54·34
		Deoghur	..	... ..	..	.. ..	..	.		Nil	Nil	0 17	0 37	54 00	51 13
		Jamtara			.	...	.. ..		... ..	Nil	Nil	0 55	0 51	57 59	49 10
		Mohagama ..	..	. .		..	.. ..	..		Nil	Nil	Nil	?	?	?
		Nanihat ..	.	..	.		......			Nil	Nil	Nil	?	29 74	?
CHUTIA NAGPUR.	Hazaribagh .	Pachamba (*Giridi*).	.. .	. .	... .	..	...	..	..	Nil	Nil	0 38	0·52	58·51	48 65
		Hazaribagh	... .	.	..	... .	. . .	..	.	Nil	Nil	0 65	0 45	56·53	49 20
		Semaria Kuran		.		.. ..	. ..		.	Nil	Nil	0 35	1·00	56 72	47 29
		Manudi Hills	..	.	. ..	.. ..		.		Nil	Nil	Nil	0·67	55 81	49 68
		Jhoomra Hills		. .	. ..		.	.		Nil	Nil	Nil	0 86	64·90	63 64
		Barhi .	. ..	... ..	..	..	. ..	.. .	. .	Nil	Nil	0 24	?	51 49	?
		Chatra	.		..	... ..		. .		Nil	Nil	0·26	?	58 22	?
		Karagdeha	..	. .	.	.		. ..	..	Nil	Nil	0 12	?	54 60	?
		Ramghar	.	.. .		.	...	..	..	Nil	Nil	Nil	?		?
	Lohardugga .	Lohardugga .	.	... .	..		.	..	...	Nil	Nil	Nil	0 55	48·64	53 48
		Ranchi .		..			.		.	Nil	Nil	0 10	0 73	53 74	53 08
		Palamow	...	.		.			.	Nil	Nil	0 48	0 38	54 53	44 24
		Silli	. .	.	... .	.	.		..	Nil	Nil	0·10	?	?	?
		Balumat ..				.. .			.	Nil	Nil	Nil	?		?
		Hosseinabad..		. .	.		.. ...	.. .	.	Nil	Nil	0 81	?	?	?
		Garwah .			.	.	. .	.		Nil	Nil	0 50	?	47 93	?
	Singhbhoom .	Chyebassa	...	..		...	... .		.	Nil	Nil	0 32	0 67	41·30	53 21
		Chakradharpore.		...			. . .	.	.	Nil	Nil	Nil	?	55 67	?
		Ghatsilla ..		.			..	.	. ..	Nil	Nil	Nil	?	55 19	?
		Bahuragura	. .	. .	.		.		.	Nil	Nil		?	.	?
	Manbhoom .	Purulia	.		. ..	...	.. .	.	.. ..	Nil	Nil	0·19	0·57	58·25	50 55
		Gobindpore ..		.. ..	.		..		.. .	Nil	Nil	0 47	0·33	38·00	46 26
		Raghunathpore.		....	. ..	..	.	. . .	. ..	Nil	Nil	0 40	?	55 83	?
		Barrabhoom	...	...		. ..	. .	..	......	Nil	Nil	0·43	?	51·72	?
		Jhalda ...													?
		Chas ...													?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA *the* 19*th March* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 15TH OF MARCH 1889.

Fino settled weather obtained in Bengal at the close of the previous week. Southerly winds had set in at the southern stations, and temperature had commenced to rise rather rapidly; pressure was also high and generally considerably above the normal. For the first four days of the present week pressure generally fell slowly, the fall from the 11th to the 12th being brisk in Upper India, so that towards the close of the week the pressure distribution over Northern India was becoming similar to that which usually obtains during the hot season. On the 14th this distribution was clearly noticeable, though at the same time there was a feeble depression overlying Chutia Nagpur and the eastern districts of the Central Provinces. With the gradual establishment of the hot-weather distribution of pressure, the southerly winds blowing at the head of the Bay commenced to strengthen rapidly and to penetrate to a considerable distance inland, and considerable amounts of moisture were thus brought up to the province. These conditions, together with perhaps the slight disturbance due to the feeble depression over Chutia Nagpur on the 14th, caused a few unimportant local storms or nor'-westers on the 14th and 15th, some of which were accompanied with rain. The only areas, however, over which these rain showers were of any importance were Khoolna, Nuddea and the Darjeeling Hills district, and the only stations at which the falls were heavy were Satkhira 1·25 inches, Chooadanga 0·90 inch, and Kalimpong 1·42 inches. At the close of the week, therefore, the general weather conditions had become almost those characteristic of the hot season in Bengal.

Pressure.—Except for the fairly steady fall which has generally taken place during the week, the pressure changes do not call for any comment. For the whole week the mean pressure over the province, taking into consideration the most reliable stations in Bengal, has been 0·013 inch in excess of the normal for the period. This excess pressure has also been fairly equally distributed.

Temperature.—The principal feature in the temperature changes during the week has again been the steady increase which has taken place. Thus, taking the mean temperature of all the districts of the province into consideration, there has been an increase of 4° during the week, for while the mean of the day and night temperatures of the whole province during the week ending March 8th was 74°, for the past week it has been 78°. This increase has perhaps been more marked in the day than in the night temperatures, and some decidedly high day or maximum temperatures have been reported during the week; thus at Cuttack on the 13th a temperature of 101·9° was registered; on the 14th at Midnapore temperature was 99·8° and at Burdwan 99·7°; and on the 15th at Chyebassa a temperature of 101·0 was recorded. For the whole week the mean temperature of the province has been about one-and-a-half to three degrees above the normal for the period.

The numbers in the following table will show the general distribution of temperature during the week. In the table are given the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts in the province, compared with the normal values for the period:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 15th March 1889.

	Normal mean maximum temperature for the week ending 15th March.	Actual mean maximum temperature for the week ending 15th March 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 15th March	Actual mean minimum temperature for the week ending 15th March 1889.	Variation of actual mean from the normal	Normal mean daily temperature for the week ending 15th March.	Actual mean daily temperature for the week ending 15th March 1889.	Variation of actual mean from the normal.
Cuttack	96·0	99·8	+3·8	71·4	68·7	−2·7	83·7	84·3	+0·6
Calcutta	90·2	91·9	+1·7	68·8	66·8	−2·0	79·5	79·4	−0·1
Dacca	90·0	94·8	+4·8	67·5	65·0	−2·5	78·8	79·9	+1·1
Burdwan	92·8	97·3	+4·5	67·9	64·5	−3·4	80·3	80·9	+0·6
Patna	90·3	92·9	+2·6	61·4	64·1	+2·7	75·8	78·5	+2·7
Gya	92·1	94·6	+2·5	63·9	64·8	+0·9	78·0	79·7	+1·7
Purneah	89·4	90·1	+0·7	58·9	60·4	+1·5	74·[illegible]	75·2	+1·0
Hazaribagh	86·9	90·0	+3·1	62·1	66·2	+4·1	74·5	78·1	+3·6
Darjeeling	56·3	57·1	+0·8	41·6	43·2	+1·6	49·0	50·2	+1·2

Rainfall.—As previously stated, only one or two stations in the province have received rainfalls of any importance during the week, and in no large meteorological district do the amounts recorded average more than a few thousandths of an inch. Behar and Chutia Nagpur have been absolutely rainless.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 15th of March 1889:—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	101·9	63·7	91·4	70·9	81·2	+1·3	0·02	0·26	—0·24	0·1	0·6	—0·5	0·02	0·51	51·65	54·89
South-West Bengal ...	99·8	60·9	95·0	66·7	80·9	+1·2	0·06	0·23	—0·17	0·1	0·6	—0·5	0·44	0·64	57·06	53·68
East Bengal	97·1	58·5	91·0	64·2	77·6	+1·4	0·02	0·45	—0·43	0·2	0·7	—0·5	0·16	1·20	72·02	76·52
North Bengal	96·5	46·3	91·6	60·6	76·1	+2·0	Nil	0·19	—0·19	0·0	0·5	—0·5	0·01	0·42	56·55	71·43
North Behar*	98·2	47·5	88·1	62·6	75·3	+1·1	Nil	0·08	—0·08	0·0	0·5	—0·5	0·19	0·28	45·70	49·45
South Behar	96·8	58·3	93·6	63·8	78·7	+2·4	Nil	0·09	—0·09	0·0	0·4	—0·4	0·30	0·24	51·71	44·54
Chutia Nagpur	92·5†	61·7†	90·5†	65·8†	78·2†	+3·6†	Nil	0·35	—0·35	0·0	0·3	—0·3	0·32	0·61	51·97	50·84

* Chapra not included.
† Chyebassa not included.

Meteorological Office, Bengal;
The 19th March 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 10th to 16th March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32 Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours
			Daily mean	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
March ...	10th .	30·003	79 6	93 8	28·4	65·4	83 6	70 1	·556	62 0	48	Nil
" .	11th ..	004	79 7	95 0	30 6	64 4	84 6	69 2	·508	59 4	42	"
"	12th .	29 985	81·2	95 0	27·6	67 4	84·6	72 6	·610	66 0	51	"
" ..	13th ..	989	81 5	93 2	23·5	69 7	84·2	76 5	·810	72 9	69	"
" ...	14th .	30 019	81 9	94 0	24·2	69 8	84 6	76 5	·805	72 7	68	"
" ...	15th .	29 987	82 1	93 4	22·6	70 8	84·1	76 0	·790	72 1	68	"
" ...	16th .	988	82 4	92 2	19·6	72 6	84 4	76·7	·816	73·1	69	"

				Inches.
The mean 10 A.M. pressure of the seven days	...	...	...	29·996
				°
The mean temperature of the seven days	...	...	..	81·2
The extreme variation of temperature	...	.	...	30·6
The maximum temperature	...	..	...	95·0
				%
The mean 10 A.M. relative humidity of the seven days		...	...	60
				Inches.
The total fall of rain from 10th to 16th March 1889		...	...	Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, India;
The 18th March 1889.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

From the annexed table exhibiting the vital statistics of the principal Municipalities in Bengal for the week ending 2nd March 1889, it appears—

1. That the birth-rate in these Municipalities amounted to 22·6 per 1,000 of population against very nearly the same proportion, viz., 22 4 per 1,000 in the preceding week ending 23rd February, and the death rate to 22·7 per 1,000 against 25·8 per 1,000 in the previous week, indicating a considerable falling off in the registration of deaths.

2. That births and deaths were reported to have been recorded at the highest rates in the following Municipalities :—

Births.

	Ratio per *mille.*
Burdwan	90·0
Comillah	67·8
Rampore Beauleah	52·5
Naraingan j	45 5
Serampore	39·3
Kishnaghur	37·8
Howrah	31·5
Monghyr	30·7
Hughli	29 5

Deaths.

	Ratio per *mille.*
Burdwan	70·2
Suburbs of Calcutta	46 3
Purneah	38·1
Serampore	29·4

3. That, as compared with the results of the preceding week, there was a diminution of mortality from all diseases, excepting cholera and injury :—

	Ratio per *mille* during the weeks ending— 2nd March 1889.	23rd Feb. 1889.
Cholera	4·2	3·4
Small-pox	·1	·2
Fever	9·1	10 9
Bowel-complaints	3·0	4·1
Injury	·5	·2
Other causes	5·8	6·9

4. That the following Municipalities suffered in a more marked degree than the others from cholera, fever and the maladies grouped under the head of "Other causes" :—

Cholera.

	Ratio per *mille.*
Bali	17·5
Suburbs of Calcutta ...	12·4
Burdwan	12·2
Howrah	8 6
Hughli	5·4

Fever.

	Ratio per *mille.*
Burdwan	35·1
Purneah ...	31·2

Other causes.

	Ratio per *mille.*
Burdwan	18 3
Suburbs of Calcutta ...	10·3

5. That the death-rates according to *Sex*, *Class* and *Age*, stood as shown below :—

According to Sex.

	Ratio per *mille.*
Males	25·5
Females	19·6
Ratio of male deaths to every 100 female deaths	148

According to Class.

	Ratio per *mille.*
Christians	21·7
Hindus	23·5
Mahomedans ...	21·2

According to Age.

	Ratio per *mille.*
Under 1 year ...	159·5
1 and under 5 years ...	23·7
5 „ 10 „ ...	9·5
10 „ 15 „ ...	8·6
15 „ 20 „ ...	20 9
20 „ 30 „ ...	17·1
30 „ 40 „ ...	18·7
40 „ 50 „ ...	17·2
50 „ 60 „ ...	27·9
60 years and upwards ...	49 7

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 18*th March* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 2nd March 1889.

1. Districts	2. Names of Municipalities	3. Population: Males	Population: Females	Population: Total	4. Births, Number of: Males	Number of: Females	Number of: Total	5. Births, Ratio per 1,000 of population per annum: Males	Ratio: Females	Ratio: Total	6. Ratio of male births to every 100 female births
Burdwan ...	Burdwan ...	18,063	16,017	34,080	33	26	59	[illegible]	29.7	[illegible]	126
Midnapore ...	Midnapore ...	16,927	16,633	33,560	8	4	12	12.4	[illegible]	[illegible]	200
Hughli ...	Hughli and Chinsurah ...	19,179	19,539	38,718	9	13	22	12.1	17.4	[illegible]	69
Serampore ...	Serampore ...	13,559	12,937	26,496	10	10	20	[illegible]	[illegible]	[illegible]	100
	Utterpara ...	3,046	[illegible]	5,710	..	1	1		9.4	9.4	No male birth.
Howrah ...	Howrah ...	53,153	[illegible]	90,513	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	111
	Bali ...	7,836	[illegible]	[illegible]	1	3	4	[illegible]	10.5	14.0	33
24-Pergunnahs ...	Suburbs of Calcutta	147,205	104,231	[illegible]	[illegible]	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nuddea ...	Kishnaghur ...	[illegible]	14,214	27,477	9	11	20	17.0	[illegible]	[illegible]	81
	Ranaghat ...	4,028	4,635	[illegible]			.			.	...
	Santipore ...	13,705	15,979	29,687	3	2	5	5.3	3.5	8.8	150
Jessore ...	Jessore ...	4,830	3,665	8,495	2	1	3	12.2	6.1	18.4	200
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	16	4	20	42.0	10.5	52.5	400
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	1	2	3	6.5	13.0	19.6	50
Dacca ...	Dacca ...	42,782	37,379	80,161	14	10	24	9.1	6.5	[illegible]	140
	Naraingunj ...	7,605	4,956	12,561	5	6	11	20.7	24.8	45.5	83
Chittagong ...	Chittagong ...	13,340	8,790	22,130	2	1	3	4.7	2.3	7.0	200
Tipperah ...	Comillah ...	8,153	5,353	13,506	8	7	15	30.8	27.0	57.8	114
Patna ...	Patna City ...	78,762	81,475	160,237	21	15	36	6.8	4.9	11.7	140
Gya ...	Gya ...	38,290	37,831	76,121	7	19	26	4.8	13.0	17.8	[illegible]
Shahabad ...	Arrah ...	20,960	22,505	43,465	5	5	10	5.9	5.9	[illegible]	100
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	7	2	9	[illegible]	2.4	10.9	350
Durbhanga ...	Durbhanga ...	33,774	32,322	[illegible]	18	18	36	[illegible]	14.1	[illegible]	100
Sarun ...	Chupra ...	26,044	27,205	53,249	6	9	15	5.8	8.8	[illegible]	[illegible]
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	9	11	20	8.1	[illegible]	[illegible]	81
Monghyr ...	Monghyr ...	28,154	29,366	[illegible]	14	[illegible]	31	[illegible]	[illegible]	[illegible]	79
Purneah ...	Purneah ...	8,463	6,553	[illegible]	4	3	7	13.8	10.4	24.2	133
Puri ...	Puri* ...	13,247	11,537	24,784	4	8	12	8.4	16.8	25.2	50
	Total ...	702,890	619,691	1,322,581	295	280	575	11.6	11.0	22.6	105

Mortality according to —

2. Names of Municipalities	7. Disease, Deaths from: Cholera	Small-pox	Fevers	Bowel-complaints	Injury	Other diseases	All causes	8. Ratio per 1,000 of population per annum: Cholera	Small-pox	Fevers	Bowel-complaints	Injury	Other diseases	All causes	9. Ratio of deaths per 1,000 of population per annum in the previous week	10. Sex, Deaths: Males	Deaths: Females	11. Ratio per 1,000 of population per annum: Males	Females	12. Ratio of male deaths to every 100 female deaths
Burdwan	8		23	3		12	46	12.2		35.1	4.6	...	18.3	70.2	27.5	29	17	33.5	55.2	170
Midnapore	1	.	4	5	..	5	15	1.5	.	6.2	7.7	..	7.7	23.2	23.2	11	4	33.8	12.5	275
Hughli and Chinsurah	4	...	5	1		4	14	5.4	...	6.7	1.3	...	5.4	18.8	25.5	11	3	29.8	8.0	363
Serampore	2	.	4	3	2	4	15	3.9	...	7.8	5.9	3.9	7.8	29.4	29.4	10	5	38.4	20.1	200
Utterpara	1	...	..	1	...	..	2	9.4	..	.	9.4	...	...	18.9	37.7	2		34.1	..	No female death.
Howrah	15	..	11	6	...	6	38	8.6	...	6.3	3.4		3.4	21.8	36.1	28	10	27.4	15.8	280
Bali	5	.	1	.		..	6	17.5	...	3.5		..	.	21.1	35.1	3	3	19.9	22.4	100
Suburbs of Calcutta	[illegible]	2	71	20	2	50	224	12.4	.4	11.7	8.1	.4	10.3	46.3	46.1	143	81	59.5	40.4	176
Kishnaghur	...	..	10	1	...	1	12	..	...	18.9	1.9		1.9	22.7	30.3	7	5	27.4	18.3	140
Ranaghat	...	...		.	..	..		.	.		...	..	...	..	12.0	..	...	..	...	... ..
Santipore		...	2	...			2	...	..	3.5	...	...	...	3.5	7.0	2	.	7.6	..	No female death.
Jessore	1	.	1	..	..	1	3	6.1	..	6.1	...	..	6.1	18.4	24.5	2	1	21.5	14.2	200
Rampore Beauleah		...	5		1	1	7	..	..	13.1	...	2.6	2.6	18.4	26.3	4	3	19.3	17.3	133
Darjiling*		..	1	1	..		2	.	.	6.5	6.5	...	..	13.0	13.0	2	...	20.7	..	No female death.
Dacca	1		7	4	1	9	22	.6	...	4.5	2.6	.6	5.8	14.3	24.0	12	10	14.6	13.9	120
Naraingunj		...	3	...	...	3	6	.	.	12.4	...	...	12.4	24.8	20.7	1	5	6.8	52.5	20
Chittagong	..	...	2	1		.	3	.	..	4.7	2.3	...	...	7.0	11.7	2	1	7.8	5.9	200
Comillah	1	..	3	..	.	...	4	5.8	..	11.5	.	...		15.4	19.3	4	..	25.5	...	No female death.
Patna City	1	2	16	1	3	10	33	.3	.6	5.2	.3	1.0	3.3	10.7	8.4	18	15	11.9	9.6	120
Gya	3	..	14	2	1	7	27	2.0	.	9.5	1.4	.7	4.8	18.4	24.6	14	13	19.0	17.9	107
Arrah		.	2	2	..	1	5		..	2.3	2.3	...	1.2	5.9	[illegible]	1	4	2.5	9.2	25
Mozufferpore	...	..	1	...		3	4			1.2	.	...	3.6	4.9	9.7	1	3	2.3	7.9	33
Durbhanga	1		18	3	..	4	26	.5		14.1	2.4	...	3.1	20.5	33.0	13	13	20.0	20.9	100
Chupra	..		5	1		3	9	...	...	4.9	1.0	.	2.9	8.8	12.7	5	4	10.0	7.6	125
Bhagulpore	1	..	3			8	12	.9	...	2.7	.	...	7.2	10.9	19.0	7	5	12.3	9.3	140
Monghyr		..	3	3	1	10	17	..	...	2.7	2.7	.9	9.0	15.4	16.3	6	11	11.1	13.5	54
Purneah	1	...	[illegible]	..	...	1	11	3.4	..	31.2	.	...	3.4	38.1	27.7	4	7	24.6	55.5	57
Puri*			7	1	1	4	13			14.7	2.1	2.1	8.4	27.3	23.1	3	10	11.8	45.1	30
Total	103	4	251	[illegible]	12	147	578	4.2	.1	9.1	3.0	.5	5.8	22.7	25.8	345	233	25.5	19.6	148

* A special census of the Europeans in the Darjiling Municipality was recently taken as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan ...	..	23	23	.			50·5	116·5			13	2	1	5	3	8	5	5	1	3	1,021·2	46·1	22·3	103·3	49·9	52·5	37·7	58·9	21·2	105·3
Midnapore	Midnapore ...		14	1	.	..	.	28·1	7·2	.	.	3	2	1	1	...	3	1	2	2		210·0	44·2	13·9	17·1	.....	21·2	9·4	27·9	50·4	.....
Hughli	Hughli and Chinsurah ..	.	13	1		..		21·4	7·6	.		1	2	1	3	1	1	2	2	1	..	55·1	39·0	14·9	51·6	17·5	6·8	14·8	20·2	15·9	.....
Serampore	Serampore ...	...	13	2				26·8	110·9	..	.	1	1	..	1	2	2	3	4	.	1	73·2	28·8	...	23·4	47·6	19·3	31·3	61·6	.....	37·4
	Utterpara ...	...	2	.				19·5	.		.		.		..		.	..	1	1	..	..	.....	....	......	.....	......	......	74·2	141·3	......
Howrah	Howrah ...		30	8				22·9	20·3		..	6	6	2	.	1	5	7	2	.	9	151·2	56·3	16·5	......	7·1	11·5	18·9	8·8	..	124·8
	Bali ...	..	6		.		.	[illegible]		.	.	1	1	1		...	1	1	1	...	..	143·6	52·1	48·8	..	.....	15·5	18·6	26·9	....	......
24-Pergunnahs	Suburbs of Calcutta ...	5	150	[illegible]	.		64·2	52·0	37·1			34	15	8	4	21	44	37	20	19	22	371·0	48·3	21·0	11·6	60·6	39·4	37·4	30·6	58·2	80·3
Nuddea	Kishnaghur ...		9	[illegible]	..	.	.	25·1	18·8	.	..	1		..	1	.	.	2	1	4	3	104·8	...	...	18·5	.....	...	24·3	15·9	98·7	90·3
	Ranaghat ...	..			.	.	.	..			..	.		.	..	.	..	...	...	...		......	...	.....	.....	......	..	......	......	...	......
	Santipore ...	..	2		..		.	5·0	.	..	..				...	..		1	...	...	1	.	......	...	.....	.....	...	12·0	.....	......	26·5
Jessore	Jessore ...		3			.		34·6			.	1		...	..		1	...	.	1	..	268·0	.	...	....	..	25·8	.....	.	92·4	......
Rajshahye	Rampore Beauleah ..		1	3	.	.		21·0	15·0		.	..	...		...	1	1	1	2	1	1	......	.	......	.....	31·3	12·5	14·4	42·4	41·9	54·0
Darjiling	Darjiling ...	.	2			.		22·6		.		..		.	.	.	.		.	2	..		...	......	...	....	......	.	..	426·2	......
Dacca	Dacca ...		16	6		.		29·6	7·9	.		2	1	3	...	2	1	5	1	3	4	54·8	7·1	15·7	......	14·2	3·4	22·3	6·2	32·9	37·3
	Narainganj ...		3	3				24·7	25·5			1		..		1	...	3	..		1	186·4	.	...	.....	49·8	.....	72·9	.....		79·8
Chittagong	Chittagong ...			3				.	15·2				1		.			1	...	1	...	..	2·4	.....	.....	..	..	15·6	...	47·9	.....
Tipperah	Comillah ...	..		4		...	.		28·1								2	1		..	1	..	..	..	..	.	37·7	26·1	....		76·7
Patna	Patna City ...		52	1				14·6	1·3			6	2	3	[illegible]	1	6		1	6	7	72·4	7·1	9·3	3·6	4·6	10·8	..	2·8	22·1	26·4
Gya	Gya ...		21	6				18·2	10·4	.		6	1			1	1	3	4	3	5	174·3	32·7	....	..	9·9	3·5	12·3	[illegible]	25·7	50·5
Shahabad . ..	Arrah ...		4	1				[illegible]	4·2		.	2			.			1		2	...	[illegible]	...	.	..	...	.....	8·1	..	33·6	.....
Mozufferpore	Mozufferpore ...		2	2	.			[illegible]	[illegible]	..		1			1	1		.	1	.		54·5	..		13·1	17·2	.	..	10·4	..	.
Durbhanga	Durbhanga ...	.	7	9				18·3	[illegible]			5	[illegible]	1	1	.	2	2		1	4	[illegible]	[illegible]	26·6	9·4		7·8	9·3	....	11·9	65·1
Saran	Chupra ...		8	1	.			[illegible]	4·3				2			1	3	...	2		1		19·6		..	14·6	16·4	..	16·6	....	14·9
Bhagulpore ...	Bhagulpore ...	.	10	2				[illegible]	[illegible]			5			.	1	1	..	1	2	2	217·8	......	.	....	12·4	4·8		8·1	24·4	28·9
Monghyr	Monghyr ...		11	6				[illegible]	[illegible]			5	1			3	..	2	.	.	6	175·1	8·4	.		41·3	.....	11·7	....	.	87·0
Purneah ...	Purneah ...		5	6			.	[illegible]	[illegible]					.	1		5		3		2	....			43·5	...	79·1	...	84·1	.....	128·9
Puri	Puri ...	.	11		.			27·6				1	1		..		2	4		1	4	171·6	[illegible]	..	..	....	19·7	51·3		23·3	115·2
	TOTAL	5	[illegible]	100			21·7	[illegible]	21·2			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82	[illegible]	51	77	[illegible]	23·7	9·5	8·6	20·9	17·1	18·7	17·2	27·9	49·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 18th March 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean-sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of January 1889.

Date.	River Ganges.															
	Mirzapore.		Benares.		Buxar.		Dinapore.		Monghyr.		Sahebgunge.		Rampore Beauleah		Goalundo.	
Distance. Miles	86		134	48	90		177	87	287	110	381	94	471	90	591	120
	From Allahabad		From Allahabad ...	From Mirzapore	From Benares		From Benares	From Buxar ...	From Benares	From Dinapore	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah
	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea level
									Below zero.							
1st ...	2·83	209·05	1·50	198·30	3·50	172·55	8·70	142·93	0·42	101·43	0·67	68·67	0·95	42·85	2·17	11·11
2nd ...	2·83	209·05	1·46	198·26	3·42	172·47	8·65	142·88	0·58	101·27	0·58	68·58	0·81	42·81	2·17	11·11
3rd ...	2·75	208·97	1·46	198·26	3·42	172·47	8·60	142·83	0·75	101·10	0·50	68·50	0·75	42·75	2·17	11·11
4th ...	2·75	208·97	1·42	198·22	3·33	172·38	8·55	142·78	0·83	101·02	0·42	68·42	0·71	42·71	2·08	11·02
5th ...	2·67	208·89	1·37	198·17	3·33	172·38	8·50	142·73	1·00	100·85	0·33	68·33	0·67	42·67	2·08	11·02
6th ...	2·58	208·80	1·37	198·17	3·25	172·30	8·45	142·68	1·08	100·77	0·25	68·25	0·63	42·63	2·08	11·02
7th ...	2·50	208·72	1·33	198·13	3·25	172·30	8·40	142·63	1·25	100·60	0·17	68·17	0·58	42·58	2·08	11·02
8th ...	2·42	208·64	1·33	198·13	3·25	172·30	8·40	142·63	1·33	100·52	0·17	68·17	0·54	42·54	2·08	11·02
9th ...	2·42	208·64	1·29	198·09	3·17	172·22	8·35	142·58	1·46	100·39	0·08	68·08	0·48	42·48	2·00	10·94
10th ...	2·33	208·55	1·17	197·97	3·17	172·22	8·35	142·58	1·58	100·27	0·08	68·08	0·44	42·44	2·00	10·94
11th ...	2·25	208·47	1·03	197·88	3·17	172·22	8·30	142·53	1·75	100·10	0·17	68·17	0·40	42·40	1·92	10·86
12th ...	2·17	208·39	0·92	197·72	3·08	172·13	8·25	142·48	1·83	100·02	0·17	68·17	0·34	42·36	1·67	10·61
13th ...	2·08	208·30	0·75	197·55	3·08	172·13	8·25	142·48	2·00	99·85	0·25	68·25	0·31	42·31	1·42	10·36
14th ...	2·00	208·22	0·58	197·38	3·00	172·05	8·20	142·43	2·14	99·81	0·25	68·25	0·31	42·31	1·25	10·19
15th ...	2·00	208·22	0·50	197·30	3·00	172·05	8·10	142·33	2·12	99·73	0·33	68·33	0·27	42·27	1·17	10·11
16th ...	2·00	208·22	0·50	197·30	3·00	172·05	8·10	142·33	2·17	99·68	0·42	68·42	0·23	42·23	1·17	10·11
17th ...	1·92	208·14	0·50	197·30	2·92	171·97	8·00	142·23	2·25	99·60	0·50	68·50	0·19	42·19	1·33	10·27
18th ...	1·83	208·05	0·46	197·20	2·92	171·97	8·00	142·23	2·29	99·56	0·58	68·58	0·15	42·15	1·50	10·44
19th ...	1·75	207·97	0·42	197·22	2·92	171·97	7·95	142·18	2·33	99·52	0·58	68·58	0·[illegible]	42·10	1·33	10·27
20th ...	1·75	207·97	0·33	197·13	2·83	171·88	7·90	142·13	2·37	99·48	0·67	68·67	0·06	42·06	1·17	10·11
21st ...	1·67	207·89	0·29	197·09	2·83	171·88	7·85	142·08	2·42	99·43	0·67	68·67	0·02	42·02	1·17	10·11
22nd ...	1·59	207·80	0·25	197·05	2·83	171·88	7·80	142·03	2·50	99·35	0·75	68·75	0·00	42·00	1·17	10·11
23rd ...	1·50	207·72	0·17	196·97	2·75	171·80	7·75	141·98	2·54	99·31	0·75	68·75	0·04	42·04	1·08	10·02
24th ...	1·50	207·72	0·17	196·97	2·75	171·80	7·75	141·98	2·58	99·27	0·83	68·83	0·08	42·08	1·06	10·03
25th ...	1·58	207·80	0·12	196·92	2·75	171·80	7·70	141·93	2·60	99·25	0·83	68·83	0·13	42·13	1·00	9·94
26th ...	1·67	207·89	0·12	196·92	2·67	171·72	7·70	141·93	2·62	99·23	0·92	68·92	0·17	42·17	0·92	9·96
27th ...	1·75	207·97	0·08	196·88	2·67	171·72	7·70	141·93	2·67	99·18	0·92	68·92	0·21	42·21	0·93	9·86
28th ...	1·83	208·05	...	196·80	2·67	171·72	7·70	141·93	2·71	99·14	1·00	69·00	0·25	42·25	0·83	9·77
29th ...	1·92	208·14	...	196·80	2·67	171·72	7·70	141·93	2·71	99·14	1·00	69·00	0·29	42·29	0·67	9·61
30th ...	1·83	208·05	...	196·80	2·58	171·63	7·70	141·93	2·75	99·10	1·00	69·00	0·29	42·29	0·58	9·52
31st ...	1·68	207·89	...	196·80	2·58	171·63	7·70	141·93	2·79	99·06	0·67	68·67	0·25	42·25	0·58	9·52

Date.	River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Berhampore.		Sarupgunge.		Gowhatty.	
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea-level.
					Below zero.	
1st ...	2·58	36·32	4·50	8·80	2·60	146·16
2nd ...	2·54	36·28	4·33	8·63	2·68	146·08
3rd ...	2·50	36·24	4·33	8·63	2·75	146·01
4th ...	2·46	36·20	4·63	8·93	2·78	145·98
5th ...	2·42	36·16	4·25	8·55	2·80	145·96
6th ...	2·38	36·13	4·25	8·55	2·85	145·91
7th ...	2·33	36·07	3·59	7·88	2·90	145·86
8th ...	2·30	36·04	3·17	7·47	2·98	145·80
9th ...	2·25	35·99	2·92	7·23	3·02	145·74
10th ...	2·20	35·94	2·83	7·13	3·10	145·66
11th ...	2·17	35·91	2·58	6·88	3·15	145·61
12th ...	2·12	35·86	2·83	7·13	3·21	145·55
13th ...	2·12	35·86	2·88	7·13	3·26	145·50
14th ...	2·12	35·86	2·87	7·17	3·30	145·46
15th ...	2·08	35·82	2·79	7·09	3·34	145·42
16th ...	2·08	35·82	3·00	7·30	3·35	145·41
17th ...	2·08	35·82	3·08	7·38	3·37	145·39
18th ...	2·04	34·78	3·25	7·55	3·25	145·51
19th ...	2·04	34·78	3·25	7·55	3·20	145·56
20th ...	2·00	35·74	3·08	7·38	3·20	145·56
21st ...	2·00	35·74	3·00	7·30	3·25	145·51
22nd ...	2·00	35·74	3·25	7·55	3·40	145·34
23rd ...	1·96	35·70	2·92	7·22	3·45	145·31
24th ...	1·96	35·70	2·83	7·13	3·45	145·31
25th ...	1·92	35·66	2·42	6·72	3·47	145·29
26th ...	1·92	35·66	2·17	6·47	3·23	145·53
27th ...	1·87	35·61	2·17	6·47	3·40	145·36
28th ...	1·87	35·61	2·25	6·55	3·51	145·25
29th ...	1·83	35·57	2·46	6·76	3·65	145·11
30th ...	1·83	35·57	2·38	6·88	3·66	145·10
31st ...	1·92	35·63	3·00	7·30	3·60	145·16

The 18th March 1889.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of January 1889.

ORISSA CIRCLE.

TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 27 MILES. MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Private. Value. Rupees.	Remarks.
15	1. Grain ...	55	38	93	5,446	93	5,446	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
37	7. Building materials	......	638	638	878	74	299	
...	8. Miscellaneous ...	......	......	......	......	......	......	
1	9. Fuel ...	......	4	4	25	4	25	
6 rafts.	10. Timber ..	......	116 No.	116 No.	177	116 No.	117	
6 rafts.	11. Bamboos ..	......	12,000 „	12,000 „	160	12,000 „	160	
53 & 12 rafts.	12. Total ...	55	680 & 12,116 No.	735 & 12,116 No.	6,686	171 & 12,116 No.	6,107	
265 & 46 rafts.	13. Total of same month last year.	5	3,227 & 31,444 No.	3,232 & 31,444 No.	11,837	2,453 & 31,444 No.	10,706	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	9	44	53
15. Total number of boats plying passenger No.	22	8	30
15½. Total empty boats No.	34	33	67
16. Total registered tonnage, cargo Tons	92	1,120	1,212
17. Total registered tonnage, passenger Tons	529	59	588
17½. Total registered empty boats	304	480	784
18. Ton-mileage ...	11,748	35,630	47,378
19. Estimated value of cargo Rs.	4,596	1,753	6,349
20. Number of passengers No.	887	101	988
21. Rafts, bamboos „	......	12,000	12,000
22. Do., bullahs „	......	116	116
23. Estimated value of rafts Rs.	......	337	337
24. Tollage on boats „	135-13-0	340-3-0	476-0-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	22-2-6	22-2-6
27. Total tollage on boats per ton-mile Rs.	......	......	Pies. 1·93
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	498	2	6
Total tollage of same month last year ...	1,115	1	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ..	95	4	9
2. Tollage per month ...	498	2	6
3. Total ...	593	7	3
4. Amount credited in the accounts of the month ...	589	11	3
5. Balance due at the end of the month ...	3	12	0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
155	1. Grain ...	504	527	1,031	67,970	1,031	67,970	
...	2. Cotton ...	.. ...	... ..	......	......	......	..	
1	3. Oilseeds ...	...	21	21	2,400	21	2,400	
17	4. Salt ...	52	53	105	9,450	105	9,450	
...	5. Piece-goods ...	......	......	......	......	......	.. ...	
...	6. Metal ...	......	......	......	......	... ..	......	
47	7. Building materials	......	789	789	31,590	779	31,559	
166	8. Miscellaneous ...	470	606	1,076	2,54,750	1,076	2,54,750	
8	9. Fuel ...	42	...	42	310	42	310	
24 rafts.	10. Timber .	. ...	1,292 No.	1,292 No.	2,140	1,292 No.	2,140	
19 „	11. Bamboos ...	......	67,925 „	67,925 „	850	67,925 „	850	
394 & 43 rafts.	12. Total ...	1,068	1,996 & 69,217 No.	3064, & 69,217 No.	3,69,460	3,054 & 69,217 No	3,69,420	
445 & 48 rafts.	13. Total of same month last year	1,304	3,107 & 50,114 No.	441 & 50,114 No.	4,20,200	3 065 & 50,114 No.	4,16,350	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	219	175	394
15. Total number of boats plying passengers No.	55	59	114
15½. Total number of empty boats No.	195	237	432
16. Total registered tonnage, cargo Tons	2,510	3,181	5,691
17. Total registered tonnage, passenger Tons	1,292	1,509	2,801
17½. Total registered tonnage, empty boats Tons	1,476	1,103	2,579
18. Ton-mileage ...	153,015	184,395	337,410
19. Estimated value of cargo Rs.	1,45,700	2 20,770	3,66,470
20. Number of passengers No.	2,666	4,250	6,916
21. Rafts, bamboos „	......	67,925	67,925
22. Do., timbers „	... ..	1,292	1,292
23. Estimated value of rafts Rs.	.....	2,990	2,990
24. Tollage on boats „	2,324 13-10	2,881-6-8	5,206-4-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	...	168-1-6	168-1-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0 3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-4

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,374	6	0
Total tollage of same month last year ...	5,914	5	2

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	4,895	11	2
2. Tollage per month ...	5,374	6	0
3. Total ...	10,270	1	2
4. Amount credited in the accounts of the month ...	4,846	3	10
5. Balance due at the end of the month ...	5,423	13	4

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
128	1. Grain ...	412	......	412	30,940	412	30,940	
...	2. Cotton ...	......	......	......	.....	......	.....	
17	3. Oilseeds ...	26	.....	26	2,900	26	2,900	
36	4. Salt ...	......	60	60	4,990	60	4,990	
...	5. Piece-goods .	......	......	......	......	......		
...	6. Metal ...	......	......	.....	......	... .	......	
11	7. Building materials	4	85	89	260	4	20	
73	8. Miscellaneous ...	71	60	131	14,800	131	14,800	
24	9. Fuel ...	203	......	203	570	203	570	
2 rafts.	10. Timber ..	582 No.	..	582 No.	1,400	582 No.	1,400	
6 "	11. Bamboos ...	. ...	15,900 No.	15,900 "	200	15,900 "	200	
289 & 8 rafts	12. Total ...	716 & 582 No.	205 & 15,900 No.	921 & 16,482 No.	56,060	836 & 16,482 No.	55,820	
342 & 50 rafts.	13. Total of same month last year ...	1,373 & 5,148 No.	288 & 28,200 No.	1,661 & 33,348 No.	77,770	1,659 & 33,348 No	77,630	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	218	71	289
15. Total number of boats plying passengers No.	5	3	8
15½. Total number of empty boats No.	36	237	273
16. Total registered tonnage, cargo Tons	1,388	460	1,848
17. Total registered tonnage, passenger Tons	26	15	41
17½. Total registered tonnage, empty boats Tons	133	615	748
18. Ton-mileage ...	25,814	16,504	42,318
19. Estimated value of cargo Rs.	36,300	18,160	54,460
20. Number of passengers No.	6	5	11
21. Rafts, bamboos "	......	15,900	15,900
22. Do., timber "	582	......	582
23. Estimated value of rafts Rs.	1,400	200	1,600
24. Tollage on boats "	392-3-3	203-14-0	596-1-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	33-10-9	14-0-6	47-11-3
27. Total tollage on boats per ton-mile Rs.	......	...	0-0-2·7
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-2-7

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	643	12	6
Total tollage of same month last year	1,348	0	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	197	9	9
2. Tollage per month ...	643	12	6
3. Total ...	841	6	3
4. Amount credited in the accounts of the month	651	9	3
5. Balance due at the end of the month ...	189	13	0

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
79	1. Grain ...	253	1	254	9,975	254	9,975	
4	2. Cotton ...	1½	4½	6	672	.6	672	
7	3. Oilseeds ..	1	14½	15½	1,016	15½	1,016	
5	4. Salt ...	... ..	29½	29½	4,160	29½	4,160	
13	5. Piece-goods ...	... ...	39½	39½	5,520	39½	5,520	
......	6. Metal ...	......	......	......	......	......	...	
11	7. Building materials	......	112½	112½	2,095	14½	2,040	
13	8. Miscellaneous ...	......	43	43	6,069	33	5,505	
13	9. Fuel ...	.. ...	94	94	262	4½	12	
19 rafts	10. Timber ...	......	5,130 c. ft.	5,130 c. ft.	2,565	5,130 c. ft.	2,565	
46 „	11. Bamboos ...	......	36,550 No.	36,550 No.	1,095	36,550 No.	1,095	
145 & 65 rafts.	12. Total ...	255½	338½ & 5,130 c. ft. 36,550 No.	594 & 5,130 c. ft. 36,550 No.	33,429	396½ & 5,130 c. ft. 36,550 No.	32,560	
166 & 49 rafts.	13. Total of same month last year.	......	......	435½ & 29,178 No.	49,490	433 & 29,178 No.	49,274	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	80	65	145
15. Total number of boats plying passenger No.	......	2	2
15½. Total empty boats No.	53	93	146
16. Total registered tonnage of cargo boat Tons	255½	338½	594
16½. Total registered tonnage of empty boats* Tons	284	211	495
17. Total registered tonnage, passenger Tons	......	2	2
18. Ton-mileage ...	8,680	9,195	17,875
19. Estimated value of cargo Rs.	10,082	19,687	29,769
20. Number of passengers No.	252½	137½	390
21. Rafts, bamboos „	......	36,550	36,550
22. Do., bullahs c. ft.	... ..	5,130	5,130
23. Estimated value of rafts Rs.	..	3,660	3,660
24. Tollage on boats „	102-5-0	124-1-6	226-6-6
25. Compounded tollage on boats Rs.	......	. ...	......
26. Tollage on rafts „	......	55-5-0	55-5-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·48
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-1-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	281	11	6
Total tollage of same month last year ...	258	7	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	281	11	6
3. Total ...	281	11	6
4. Amount credited in the accounts of the month ...	277	12	0
5. Balance due at the end of the month ...	3	15	6

* Shown separately, vide Superintending Engineer's No. 474, dated 28th January 1889.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
41	1. Grain ...	94	......	94	4,953	94	4,953	
...	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ...	......	5½	5½	465	5½	465	
2	4. Salt ...	7	......	7	828	7	828	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	....	......	......	
...	7. Building materials	......	......	......	......	......	......	
4	8. Miscellaneous ...	......	23	23	2,209	14	1,960	
...	9. Fuel ...	......	...	... ..	......	......	......	
6 rafts.	10. Timber ...	......	7,872 c. ft.	7,872 c. ft.	1,219	7,872 c. ft.	1,219	
...	11. Bamboos .	......	......	......	......	......	......	
49 & 6 rafts.	12. Total ...	101	28½ & 7,872 c. ft.	129½ & 7,872 c. ft.	9,674	120½ & 7,872 c. ft.	9,425	
52 & 8 rafts.	13. Total of same month last year.	....	....	147½ & 92 No.	11,506	146 & 92 No.	11,501	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	43	6	49
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	6	48	54
16. Total registered tonnage of cargo boat Tons	101	28½	129½
16½. Total registered tonnage of empty boats* Tons	25	131	156
17. Total registered tonnage, passenger Tons	......	......	......
18. Ton-mileage ...	3,606	2,758	6,364
19. Estimated value of cargo Rs.	5,781	2,674	8,455
20. Number of passengers No.	215	163	378
21. Rafts, bamboos c. ft.	......	......	......
22. Do., bullahs "	......	7,872	7,872
23. Estimated value of rafts Rs.	... .	1,219	1,219
24. Tollage on boats "	41-0-3	20-6-3	61-6-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	31-15-0	31-15-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·85
28. Total tollage on rafts per 100 cubic feet Rs.	......	.... .	0-6-6

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	93	5	6
Total tollage of same month last year	66	1	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	93	5	6
3. Total ...	93	5	6
4. Amount credited in the accounts of the month ...	93	5	6
5. Balance due at the end of the month ...	......		

* Shown separately, *vide* Superintending Engineer's No. 474, dated 28th January 1889.

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
...	1. Grain ...	......	......	......	......	......	......	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	...	
4	5 Piece-goods ...	5½	......	5½	1,620	5½	1,620	
...	6. Metal	......	......	......	......	......	......	
2	7. Building materials	11	......	11	32	......	?....	
8	8. Miscellaneous ...	14½	......	14½	2,845	14½	2,845	
1	9. Fuel ...	4	......	4	150	4	150	
19 rafts	10. Timber ...	5,070 c. ft.	......	5,070 c. ft.	845	5,070 c. ft.	845	
...	11. Bamboos	...	......	......	......	......	...	
19 rafts. 15 No.	12. Total ...	35 & 5,070 c.ft.	......	35 & 5,070 c ft.	5,492	24 & 5,070 c ft	5,460	
...	13. Total of same month last year	......	......	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	15	......	15
15. Total number of boats plying passenger No.	......	...	......
15½. Total number of empty boats No.	..	14	14
16. Total registered tonnage of cargo boats Tons	35	......	35
16½ Total registered tonnage, of empty boats* Tons	...	33	33
17. Total registered tonnage, passenger Tons	... ..	......	...
18. Ton-mileage ...	402	198	600
19. Estimated value of cargo Rs.	4,647	......	4,647
20. Number of passengers No.	......	......	......
21. Rafts, bamboos c.ft.	......	......	......
22. Do., bullahs "	5,070	......	5,070
23. Estimated value of rafts Rs.	845	......	845
24. Tollage on boats "	4-14-0	1-5-0	6-3-0
25. Compounded tollage on boats ... Rs.	......	...	......
26. Tollage on rafts "	10-3-2	......	10-3-2
27. Total tollage on boats per ton-mile Rs.	....	......	0-0-1·98
28. Total tollage on rafts per 100 cubic feet Rs.		......	0-3-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	16	6	2
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	......		
2. Tollage per month ...	16	6	2
3. Total ...	16	6	2
4. Amount credited in the accounts of the month ...	16	6	2
5. Balance due at the end of the month ...	......		

* Shown separately, *vide* Superintendin Engineer's No. 474, dated 28th January 1889.

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Quantity—Tons. Down.	Quantity—Tons. Total.	Value. Rupees.	Private. Quantity. Tons.	Private. Value. Rupees.	Remarks.
1,629	1. Grain ...	8,228	579	8,807	3,77,320	8,807	3,77,320	
...	2. Cotton ...	......	......	... ..	12	.. ...	12	
6	3. Oilseeds ...	46	40	86	8,212	86	8,212	
83	4. Salt ...	......	722	722	73,640	722	73,640	
1	5. Piece-goods ...	......	50	50	1,41,100	50	1,41,100	
3	6. Metal	4	8	12	7,000	12	7,000	
22	7. Building materials	261	9	270	925	270	925	
256	8. Miscellaneous ...	531	478	1,009	4,82,057	1,009	4,82,057	
16	9. Fuel ...	11	157	168	1,316	168	1,316	
93 rafts.	10. Timber ...	35,200 c. ft.	199 c. ft.	35,399 c. ft.	9,143	35,399 c. ft	9,143	
6 „	11. Bamboos ...	4,400 „	100	4,500 „	212	4,500 „	212	
2,016 & 99 rafts.	12. Total ...	9,081 & 39,600 c. ft.	2,043 & 299 c. ft.	11,124 & 39,899 c. ft	11,00,937	11,124 & 39,899 c. ft.	11,00,937	
1,467 & 59 rafts.	13. Total of same month last year.	8,143 & 19,085 c. ft.	1,692 & 598 c. ft.	9,835 & 19,683 c. ft.	10,25,129	9,799 & 19,683 c. ft.	10,24,879	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,704	312	2,016
15. Total number of boats plying passenger No.	509	647	1,156
15½. Total number of empty boats No.	762	1,237	1,999
16. Total registered tonnage, cargo Tons	22,784	4,272	27,056
17. Total registered tonnage, passenger Tons	3,586	3,933	7,519
17½. Total registered tonnage, empty boats Tons	3,019	4,958	7,977
18. Ton-mileage	5,81,136	3,02,564	8,83,700
19. Estimated value of cargo Rs.	6,58,442	4,33,140	10,91,582
20. Number of passengers No.	7,192	10,050	17,242
21. Rafts, bamboos c. ft	4,400	100	4,500
22. Do., bullahs „	35,200	199	35,399
23. Estimated value of rafts Rs	9,043	312	9,355
24. Tollage on boats „	11,089-1-6	4,678-9-6	15,767-11-0
25. Compounded tollage on boats Rs	......	......	...
26. Tollage on rafts „	355-13-6	1-8-6	357-6-0
27. Total tollage on boats per ton-mile Pie	......	......	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-14-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	16,125	1	0
Total tollage of same month last year .	10,713	11	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	7,560	2	4
2. Tollage per month ...	16,125	1	0
3. Total ...	23,685	3	4
4. Amount paid into Treasury during the month	18,123	1	0
5. Balance due at the end of the month ...	5,562	2	4

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
451	1. Grain ...	2,214	12	2,226	1,01,972	2,226	1,01,972	
...	2. Cotton ...	...	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	...	......	
17	4. Salt ...	......	115	115	12,920	115	12,920	
4	5. Piece-goods ...	......	9	9	6,250	9	6,250	
2	6. Metal ...	......	2	2	187	2	187	
12	7. Building materials	43	24	67	163	67	163	
630	8. Miscellaneous ...	289	285	574	55,076	574	55,076	
28	9. Fuel ...	116	192	308	2,216	218	1,306	
11 rafts	10. Timber ...	1,092 c.ft	1,692 c. ft.	2,784 c ft.	2,617	2,784 c.ft.	2,617	
4 „	11. Bamboos ...	800 „	2,600 „	3,400 „	342	3,400 „	342	
1,144 & 15 rafts.	12. Total ...	2,662 & 1,892 c. ft.	639 & 4,292 c. ft.	3,301 & 6,184 c. ft.	1,81,743	3,211 & 6,184 c. ft.	1,80,833	
......	13. Total of same month last year.	......	......	Nil	...	Nil	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	602	542	1,144
15. Total number of boats plying passenger No.	40	62	102
16. Total registered tonnage, cargo Tons	5,608	2,816	8,424
17. Total registered tonnage, passenger Tons	414	509	923
18. Ton-mileage	98,717	57,864	1,56,581
19. Estimated value of cargo Rs.	1,16,869	61,915	1,78,784
20. Number of passengers No.	1,324	1,764	3,088
21. Rafts, bamboos c. ft.	800	2,600	3,400
22. Do., bullahs „	1,092	1,692	2,784
23. Estimated value of rafts Rs.	1,194	1,765	2,959
24. Tollage on boats „	1,728-12-3	1,019-2-0	2,747-14-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	13-5-9	22-11-0	36-0-9
27. Total tollage on boats per ton-mile Rs	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-9-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,783	15	0
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,227	7	9
2. Tollage per month ...	2,783	15	0
3. Total ...	4,011	6	9
4. Amount paid into Treasury during the month ...	2,465	5	3
5. Balance due at the end of the month ...	1,546	1	6

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
6	1. Grain ...	3	36	39	1,675	39	1,675	
...	2. Cotton ...	......	......	......	......	......	......	
3	3. Oilseeds ...	1	19	20	1,805	20	1,805	
1	4. Salt ...	51	......	51	5,736	51	5,736	
19	5. Piece-goods ...	115	......	115	36,205	107	35,305	
...	6. Metal ...	6	2	8	31,130	8	31,130	
17	7. Building materials	16	199	215	2,695	187	2,265	
76	8. Miscellaneous ...	110	456	566	54,063	339	53,729	
...	9. Fuel ...	......	......	......	...	......	......	
1	10. Timber { Boats	12	......	12	300	12	300	
	Rafts	......	317	317	808	317	808	
12	11. Bamboos { Boats	159	......	159	2,975	159	2,975	
	Rafts	11	430	441	6,862	441	6,862	
135	12. Total ...	484	1,459	1,943	1,44,254	1,680	1,42,590	
197	13. Total of same month last year.	......	......	3,050	1,83,902	2,303	1,75,608	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	47	88	135
15. Total number of boats plying passenger No.	5	4	9
15½. Total number of boats plying empty boats No.	64	22	86
16. Total registered tonnage, cargo Tons	726	1,255	1,981
17. Total registered tonnage, passenger Tons	135	108	243
17½. Total registered tonnage, empty boats Tons	254	131	385
18. Ton-mileage ...	45,418	1,25,872	1,71,290
19. Estimated value of cargo Rs.	57,407	79,177	1,36,584
20. Number of passengers No.	362½	266½	629
21. Rafts, bamboos q. ft.	1,600	64,485	66,085
22. Do., bullahs "	.....	23,756	23,756
23. Estimated value of rafts Rs.	400	7,270	7,670
24. Tollage on boats "	287-0-0	567-12-6	854-12-6
25. Compounded tollage on boats Rs.	150-0-0	150-0-0	300-0-0
26. Tollage on rafts "	0-8-0	390-8-3	391-0-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·2
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-6-11

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,545	12	9
Total tollage of same month last year ...	2,245	14	1

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	479	0	0
2. Tollage per month ...	1,545	12	9
3. Total ...	2,024	12	9
4. Amount credited in the accounts of the month	1,615	14	9
5. Balance due at the end of the month ...	408	14	0

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
11	1. Grain ...	3	125	128	8,985	128	8,985	
......	2. Cotton ...	2	......	2	3,080	2	3,080	
2	3. Oilseeds ...	3	34	37	3,690	37	3,690	
18	4 Salt ...	243	......	243	21,352	243	21,352	
......	5. Piece-goods ..	18	......	18	24,815	18	24,815	
......	6. Metal ...	......	1	1	17,068	1	17,068	
12	7. Building materials	1	93	94	510	55	220	
73	8. Miscellaneous ...	18	342	360	7,846	230	7,548	
4	9. Fuel ...	80	......	80	964	.....	.....	
......	10. Timber ...	2	3	5	440	5	440	
Rafts	11. Bamboos ...	......	69	69	886	69	886	
	11. Bullahs ...	......	124	124	405	124	405	
	11. Firewood ...	......	411	411	1,885	411	1,885	
120	12. Total ...	370	1,202	1,572	91,926	1,323	90,374	
110	13. Total of same month last year.	......	......	2,173	1,30,197	1,793	1,20,236	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	28	92	120
15. Total number of boats plying passenger No.	......	2	2
15½. Total number of empty boats No.	87	11	98
16. Total registered tonnage, cargo Tons	636	1,075	1,711
17. Total registered tonnage, passenger Tons	59	67	126
17½. Total registered tonnage, empty boats Tons	299	37	336
18. Ton-mileage ...	46,497	48,668	95,165
19. Estimated value of cargo Rs.	52,778	35,972	88,750
20. Number of passengers No.	822	880	1,702
21. Rafts, bamboos c.ft.	......	10,355	10,355
22. Do., bullahs "	......	9,300	9,300
22½ Do., firewood "	......	30,829	30,829
23. Estimated value of rafts Rs.	......	3,176	3,176
24. Tollage on boats "	226-8-0	321-1-0	547-9-0
25 Compounded tollage on boats Rs.	328-0-0	328-0-0	656-0-0
26. Tollage on rafts "	......	85-0-0	85-0-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·42
28. Total tollage on rafts per 100 cubic feet Rs.	......	0-2-8	0-2-8

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,288	9	0
Total tollage of same month last year ...	1,331	8	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	226	0	9
2. Tollage per month ...	1,288	9	0
3. Total ...	1,514	9	9
4. Amount credited in the accounts of the month	1,406	8	6
5. Balance due at the end of the month ...	108	1	3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
8	1. Grain ...	......	129	129	9,965	129	9,965	
...	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ...	......	39	39	3,000	39	3,000	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	1	......	1	2,090	1	2,090	
...	6. Metal ...	1	......	1	930	1	930	
1	7. Building materials	......	5	5	150	......	......	
22	8. Miscellaneous ...	14	242	256	12,546	256	12,546	
...	9. Fuel ...	......	......	......	......	......	......	
Rafts	10. Timber ...	......	75	75	1,852	75	1,852	
	11. Bamboos ...	......	403	403	6,665	403	6,665	
33	12. Total ...	16	893	909	37,198	904	37,048	
47	13. Total of same month last year	......	......	1,079	46,222	698	31,947	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3	30	33
15. Total number of boats plying passenger No.	9	10	19
15½. Total number of empty boats No.	20	9	29
16. Total registered tonnage, cargo Tons	16	1,024	1,040
17. Total registered tonnage, passenger Tons	243	250	493
17½. Total registered tonnage, empty boats Tons	76	33	109
18. Ton-mileage ...	3,493	15,630	19,123
19. Estimated value of cargo Rs.	4,886	23,795	28,681
20. Number of passengers No.	496	570	1,066
21. Rafts, bamboos c. ft.	......	60,527	60,527
22. Do., bullahs "	......	5,657	5,657
23. Estimated value of rafts Rs.	......	8,517	8,517
24. Tollage on boats "	19-13-6	169-6-9	189-4-3
25. Compounded tollage on boats Rs.	150-0-0	214-0-0	364-0-0
26. Tollage on rafts "	......	282-6-0	282-6-0
27. Total tollage on boats per ton-mile Rs.	......	......	Pie. 0-0-5·5
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-6-9

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	835 10 3
Total tollage of same month last year ...	673 14 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	24 10 0
2. Tollage per month ...	835 10 3
3. Total ...	860 4 3
4. Amount credited in the accounts of the month ...	779 12 6
5. Balance due at the end of the month ...	80 7 9

ABSTRACT FOR THE MONTH OF JANUARY 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1888-89.		Traffic, 1887-88.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Circle.					
Taldunda Canal System ...	498 2 6	2,320 0 0	1,115 1 9	4,768 10 9	
Kendrapara Canal System	5,374 6 0	39,732 11 6	5,914 5 2	36,081 2 2	
High Level, Range I ...	643 12 6	4,914 10 0	1,348 0 0	6,335 9 6	
Ditto, " II ...	281 11 6	2,036 10 6	258 7 3	2,924 10 3	
Ditto, " III ..	93 5 6	896 12 6	66 1 3	899 14 0	
Jajepore Canal .	16 6 2	74 4 11	......	......	
Total Orissa Circle ...	6,907 12 2	49,975 1 5	8,701 15 5	51,009 14 8	
South-Western Circle.					
Midnapore Canal ...	16,125 1 0	1,17,474 8 9	10,713 11 9	1,01,001 8 9	
Hidgellee Tidal Canal ...	2,783 15 0	47,485 4 0	......	40,046 14 0	
Total South-Western Circle	18,909 0 0	1,64,959 12 9	10,713 11 9	1,41,048 6 9	
Sone Circle.					
Patna Canal System ...	1,545 12 9	20,916 11 6	2,245 14 1	21,549 5 7	
Arrah ditto ...	1,288 9 0	16,237 11 2	1,331 8 0	12,633 7 0	
Buxar ditto ...	835 10 3	7,611 5 9	673 14 3	6,225 8 11	
Total Sone Circle ...	3,670 0 0	44,765 12 5	4,251 4 4	40,408 5 6	
GRAND TOTAL ...	29,486 12 2	2,59,700 10 7	23,666 15 6	2,32,466 10 11	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	638	1,302	1,007 9 2	4,349	4,024	5,135 0 4	189	491	389 9 9	2,888	4,707	3,784 7 3
Total Orissa Circle ...	638	1,302	1,007 9 2	4,349	4,024	5,135 0 4	189	491	389 9 9	2,888	4,707	3,784 7 3

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1888-89.		Earnings, 1887-88.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	7,915 5 4	55,110 1 9	9,091 9 2	54,794 5 11	
Midnapore Canal ...	16,125 1 0	1,17,474 8 9	10,713 11 9	1,01,001 8 9	
Hidgellee Tidal Canal ...	2,783 15 0	47,485 4 0	......	40,046 14 0	
Sone Canals ...	3,670 0 0	44,765 12 5	4,251 4 4	40,408 5 6	
Total ...	30,494 5 4	2,64,835 10 11	24,056 9 3	2,36,251 2 2	

CALCUTTA,

The 19*th March* 1889.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 16th March 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 16th March 1889.			Week ending Saturday, the 17th March 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	695	1,93,615	3,421	1,080	2,30,315	4,350
Jute	53	37,350	649	50	45,200	776
Firewood	171	97,010	1,459	136	67,147	1,043
Other articles	1,006	2,43,960	3,978	892	2,35,942	3,453
Total ...	1,925	5 71,935	9,507	2,168	5,78,604	9,622

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of December 1888 *as compared with the same month of the previous year.*

STAPLES.	1888.		1887.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1887.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal ...	11,037	3,557	7,332	3,142	14,594	10 474	4,120	...
Cotton, raw ...	105	359	62	180	464	242	222	...
Cotton twist and yarn—								
1.—European ...								
2.—Indian ...								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles ..	2,348	135	2,097	143	2,483	2,240	243	......
b.—In boxes ...								
2.—Indian—								
a.—In bales and bundles ...								
b.—In boxes ...								
Grains—								
2.—Rice ...	1,257	2,526	1,752	5,019	3,783	6,771	.	2,988
5—Others ...	799	5,240	623	7,005	6,039	7,628	... ..	1,589
Hides and skins—								
1.—Hides of cattle—								
a—Dressed ...								
b.—Undressed ...								
2.—Skins of sheep, &c—	8	628	17	611	636	628	8	...
a—Dressed ...								
b.—Undressed ...								
Jute—								
1.—Raw—								
a.—Screwed ...	. ...	3,649	...	4,343	3,649	4,343	..	694
b.—Unscrewed ...	33	35,442	10	27,490	35,475	27,500	7,975	. ...
2.—Gunny bags and cloth ...	138	1,358	276	1,687	1,496	1,963	... .	467
Metals—								
1.—Copper, unwrought ...								
2.—Brass, unwrought ..								
3—Brass and copper, wrought ...	953	171	782	114	1,124	896	228	......
4.—Iron ...								
5.—Tin ...								
6.—Others ...								
Oils—								
2.—Kerosine ...	417	6	212	21	423	233	190	.. .
3—Others ...	135	52	189	32	187	221	.. ..	34
Oilseeds—								
1.—Linseed ...								
2.—Rape and mustard ...								
3.—Til or gingelly ...								
4—Niger ...	70	1,081	122	657	1,151	779	372	...
5.—Castor ...								
6.—Poppy ...								
7—Others ...								
Provisions—								
2.—Betel-nuts ...	103	149	67	559	252	626	..	374
3.—Others ...	475	371	350	244	846	594	252	...
Railway plant and rolling-stock ...	3,906	1,449	2,335	851	5,355	3,186	2,189	..
Salt ...	3,721	9	1,995	13	3,730	2,008	1,722	. ...
Sugar—								
1.—Drained ...	603	219	399	60	822	459	363	... ..
2.—Undrained ...								
Tea—								
1.—Foreign ...	1	1,579	.....	1,534	1,580	1,534	46	.... .
2.—Indian ...								
Wood—								
1.—Timber ...	106	73	90	153	179	243	......	64
2.—Firewood ...	1,966	44	1,211	26	2,010	1,237	773	.. ..
Tobacco ...	49	1,162	78	946	1,211	1,024	187	......
All other articles of merchandise—								
1.—Unmanufactured ...	3,748	1,909	3,409	2,238	5,657	5,647	10	......
2.—Manufactured ..								
Hay, straw, and wooloo (C. & S.-E. Sections)	540	.....	318	....	540	318	222	.. ..
Total ...	82,518	61,168	23,726	57,048	93 686	80,774	19,122	6,210

Comparative Statement of the principal commodities carried by the Eastern Bengal State Railway during the month of December 1888.

INCREASES.

	Tons.
Coal ...	4,120
For Railway and Flotilla consumption: also for brick burning for the Kidderpore docks.	
Jute ...	7,975
This increase is principally from the Northern Section, including the Raiganj Extension. Damukdia Ghât, Kooshtea, Serajganj, Dacca and Mymensingh show large decreases. There are increases from Goalundo and Pangsa. A firm market in Calcutta during the month.	
Oilseeds ...	372
A demand for linseed for the United States in the early part of the month probably influenced this increase. The London prices, however, collapsed, and the market at the close of the month was depressed.	
Railway plant, &c. ...	2,189
Repairs and renewals.	
Salt ...	1,722
Exclusively from Chitpore	
Sugar ...	363
All sugar-exporting stations show small increases under this head.	
Firewood ...	773
From the Southern Section.	

DECREASES.

	Tons.
Rice ...	2,988
Large decreases from Hilli, Jaipurhat, Nowabganj, Sultanpur and Sara.	
Jute, screwed ...	694
Falling off in despatches from Dacca.	

Calcutta, the 16*th March* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of December 1888, as compared with the same month of the previous year.

Staples.	1888.		1887.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1887.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	3,606	13	2,407	......	3,619	2,407	1,212	......
Cotton, raw	...	......	1	... ...	... ..	1	......	1
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	185	1	163	1	186	164	22	......
b.—In boxes ...								
2.—Indian—								
a. In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2	72	2	690	74	692	.....	618
5.—Others	21	61	26	43	82	69	13	... ..
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	....	28	... ..	21	28	21	7	... .
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.. .	... ..	....	10	..	10	......	10
b.—Unscrewed	... .	1,585	. ..	971	1,585	971	614	......
2.—Gunny bags and cloth	2	...	8	1	2	9	. ...	7
Metals—								
1.—Copper, unwrought								
2. Brass, unwrought .								
3.—Brass and copper, wrought ...	48	61	41	17	109	58	51	......
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	67	.. .	44	.....	67	44	23	.... .
3.—Others	29	1	83	.....	30	83	.. .	53
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	59	16	35	12	75	47	28	. ..
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	......	130	2	545	136	547	...	411
3.—Others	41	23	67	60	64	127	... ..	63
Railway plant and rolling-stock	19	19	161	87	38	248	...	210
Salt	166	....	129	......	166	129	37	.. ...
Sugar—								
1.—Drained	7	178	8	32	185	40	145	......
2.—Undrained								
Wood—								
1.—Timber	12	....	21	23	12	44	... ..	32
2.—Firewood	21	11	36	17	32	55	... .	23
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	318	182	369	178	500	547	......	47
2.—Manufactured								
Total ...	4,603	2,387	3,605	2,708	6,990	6,313	2,152	1,475

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of December 1888.

INCREASES.

Coal 1,212
Chiefly for railway and Flotilla consumption.

Jute 614
Principally from Khulna, Singia, and Nawapara; but the increase has been general.

Sugar 145
Gobordanga and Jhikargachi contributed this increase.

DECREASES.

Rice 618
Khoolna and Singhia both show large decreases in this commodity, due to excessive rainfall.

Betelnuts 411
The large falling off is from the B. C. F This traffic seems to be coming into Calcutta by country boats,

CALCUTTA, *the 12th March* 1889. F. P. QUINLAN, *Examiner of Accounts*.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	286,145	3,22,642 10 0	28,21,635 10	6,07,769 3 0	16,710 7 2	9,47,122 4 2	68,080½	97,423	165,509½
Or per mile of railway .		213 2 3	.	401 8 0	11 0 7	625 10 10	......	......	.....
For previous 9 weeks of half-year	2,207,154	26,38,395 13 0	2,48,41,864 30	54,15,297 1 4	1,37,946 2 3	81,91,639 0 7	581,611	860,205½	1,441,816½
Total for 10 weeks .	2,493,299	29,61,038 7 0	2,76,63,500 0	60,23,066 4 4	1,54,656 9 5	91,38,761 4 9	649,697½	957,628½	1,607,326½
Comparison.									
Total for corresponding week of previous year .	294,951	3,36,328 4 7	28,45,234 10	6,65,684 10 6	28,977 0 7	10,30,989 15 8	70,471	105,170	175,641
Per mile of railway corresponding week of previous year .		222 2 11	... ..	439 12 2	19 2 3	681 1 4	......	......	......
Total to corresponding date of previous year	2,756,258	32,43,071 0 11	2,84,21,915 10	67,54,148 11 0	2,35,002 15 1	1,02,32,222 11 0	665,754	1,066,800	1,732,554

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,30,990	681	1,513¾	9,47,122	626	1,513¾	4,35,90,989	588	1,513¾	4,17,45,411	563	.. ...	18,45,578

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 9th March 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried.	Receipts			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,977	7,919 13 0	21,630 0	1,558 12 0	32 6 0	9,510 15 0	2,050½	466	2,516½
Or per mile of railway	250	138 7 4	378 10	27 4 0	0 9 1	166 4 5	.....	......	......
For previous 9 weeks of half-year	104,846	59,058 9 0	2,49,105 0	15,269 13 0	325 11 10	74,654 1 10	16,227	5,323	21,550
Total for 10 weeks ...	119,123	66,978 6 0	2,70,735 0	16,828 9 0	358 1 10	84,165 0 10	18,277½	5,789	24,066½
Comparison.									
Total for corresponding week of previous year .	17,709	9,957 12 5	24,456 20	1,572 2 0	37 9 3	11,567 7 8	1,963	431	2,394
Per mile of railway corresponding week of previous year ..	310	174 1 5	427 30	27 7 9	0 10 6	202 3 8	... ..	. .	......
Total to corresponding date of previous year	159,270½	89,200 2 10	3,08,742 10	19,950 3 0	533 2 0	1,09,683 7 10	18,882	5,400	24,282

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,567	202	57½	9,511	166	57½	4,89,830	175	57½	4,52,284	161	......	37,54

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,976	517 9 0	17,432 0	325 15 0	12 4 0	855 12 0	375½	118	493½
Or per mile of railway ...		43 2 1	...	27 2 7	1 0 4	71 5 0	...	...	...
For previous 9 weeks of half-year	22,632	3,808 3 0	1,50,959 20	3,375 4 0	112 13 8	7,296 4 8	2,997½	1,303½	4,300½
Total for 10 weeks ..	25,608	4,325 12 0	1,68,391 20	3,701 3 0	125 1 8	8,152 0 8	3,372¾	1,421½	4,794
Comparison.									
Total for corresponding week of previous year	2,826	495 8 10	28,620 20	686 0 0	11 1 0	1,192 4 10	303	190	493
Per mile of railway corresponding week of previous year		41 4 4		57 2 8	0 14 9	99 5 9	...	.....	......
Total to corresponding date of previous year	30,453	5,104 15 7	2,25,949 0	4,754 13 0	117 2 3	9,976 14 10	3,326	1,604	4,930

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1889	Total decrease in 1889
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,192	99	12	856	71	12	45,497	77	12	41,925	71	..	3,572

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, on 22½ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried	Receipts			Coaching.	Merchandise.	Total.
		Rs A. P	Mds. S.	Rs. A. P	Rs A. P	Rs. A. P			
Total traffic for the week ..	22,140	5,835 2 0	9 174 20	316 14 0	7 11 0	6,159 11 0	904	64	968
Or per mile of railway . .		262 4 1		14 5 10	0 5 6	276 13 5	..	...	
For previous 9 weeks of half-year	184 255	46 678 3 0	85 507 20	2,999 6 0	59 11 10	49,737 4 10	8,153	546	8 699
Total for 10 weeks ..	206,395	52,513 5 0	94 682 0	3 316 4 0	67 6 10	55,896 15 10	9,057	610	9 667
Comparison									
Total for corresponding week of previous year .	23,358½	6,018 15 1	10,695 10	366 14 0	10 9 0	6 396 6 1	896	72	968
Per mile of railway corresponding week of previous year	. .	270 8 3		16 7 10	0 7 7	287 7 8	...	... .	..
Total to corresponding date of previous year	217,253½	56,236 10 9	88,791 20	3,083 14 0	72 0 6	59 392 9 3	8 915	897	9,812

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	6,396	287	22½	6,160	277	22½	2,52,621	232	22½	2,59,753	238	7,132	..

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 2nd March 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	143,670	79,580 0 0	6,34,190 0	93,320 0 0	24,840 0 0	1,97,740 0 0	21,246	26,395	47,641
Or per mile of railway ...	212	118 0 0	942 0	139 0 0	*16 0 0	273 0 0	......	......	......
For previous 8 weeks of half-year ...	1,117,019	5,77,590 0 0	38,49,650 0	7,72,350 0 0	1,30,180 0 0	14,80,120 0 0	166,855	203,980	370,835
Total for 9 weeks ...	1,260,289	6,57,170 0 0	44,83,840 0	8,65,670 0 0	1,55,020 0 0	16,77,860 0 0	188,101	230,375	418,476
COMPARISON.									
Total for corresponding week of previous year ...	a208,298	91,190 0 0	b9,06,304 0	86,608 0 0	14,203 0 0	1,92,001 0 0	23,460	26,871	50,331
Per mile of railway corresponding period of previous year ..	323	141 0 0	1,405 0	134 0 0	*5 0 0	280 0 0	......	......	......
Total to corresponding date of previous year ...	1,323,154	7,14,159 0 0	50,24,214 0	7,58,984 0 0	1,52,239 0 0	16,25,382 0 0	199,524	225,457	424,981

* Excluding steamer.
a Includes 48,000 monthly tickets and those issued during Dole jatra festival which fell in this week.
b Includes 400,000 maunds ballast trains.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,92,001	298	673	1,97,740	294	645	89,75,094	290	673	*98,59,176	305	8,84,082	......

* Audited up to week ending 22nd December 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	24,320	10,230 0 0	67,420 0	3,600 0 0	160 0 0	13,990 0 0	3,597	1,075	4,672
Or per mile of railway ..	199	82 0 0	539 0	29 0 0	1 0 0	112 0 0	......	......	......
For previous 8 weeks of half-year ...	201,930	71,820 0 0	3,86,968 0	20,560 0 0	3,660 0 0	96,060 0 0	27,836	16,007	43,843
Total for 9 weeks ...	226,850	82,050 0 0	4,54,388 0	24,160 0 0	3,820 0 0	1,10,050 0 0	31,433	17,082	48,515
COMPARISON.									
Total for corresponding week of previous year ...	*35,537	10,565 0 0	61,681 0	4,038 0 0	193 0 0	14,796 0 0	3,511	1,936	5,447
Per mile of railway corresponding period of previous year ...	284	85 0 0	493 0	32 0 0	1 0 0	118 0 0	......	......	......
Total to corresponding date of previous year ...	238,343	84,464 0 0	4,45,229 0	27,684 0 0	3,085 0 0	1,15,233 0 0	29,935	17,316	47,251

* Includes 8,600 season tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,796	118	125	13,990	112	125	6,20,817	103	125	*6,52,288	109	31,471	......

* Audited up to week ending 22nd December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,310	5,380 0 0	29,190 0	800 0 0	290 0 0	6,470 0 0	2,402	702	3,104
Or per mile of railway	178	63 0 0	339 0	9 0 0	3 0 0	75 0 0	......	......	......
For previous 8 weeks of half-year	110,665	36,920 0 0	95,750 0	10,020 0 0	2,640 0 0	49,580 0 0	18,834	5,144	23,978
Total for 9 weeks ...	125,975	42,300 0 0	1,24,940 0	10,820 0 0	2,930 0 0	56,050 0 0	21,236	5,846	27,082
Comparison.									
Total for corresponding week of previous year	16,205	a2,529 0 0	22,154 0	632 0 0	54 0 0	3,215 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year	188	29 0 0	256 0	7 0 0	1 0 0	37 0 0	......	......	......
Total to corresponding date of previous year	125,925	38,125 0 0	1,21,559 0	9,186 0 0	1,691 0 0	49,002 0 0	22,305	5,571	27,936

a Due to Rs. 1,734 on account of haulage of post-office mails overcredited in previous half-year written back in this week.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	3,215	37	86	6,470	75	86	2,74,940	67	86	*2,77,987	67	3,047	...

* Audited up to week ending 22nd December 1888.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd March 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,859	1,090 0 0	27,320 0	1,810 0 0	30 0 0	2,930 0 0	532	532	1,064
Or per mile of railway ...	75	29 0 0	719 0	47 0 0	1 0 0	77 0 0	... .	......	.
For previous 8 weeks of half-year	23,601	9,500 0 0	205,410 0	14,810 0 0	190 0 0	24,500 0 0	4,128	4,128	8,256
Total for 9 weeks ...	26,460	10,590 0 0	232,730 0	16,620 0 0	220 0 0	27,430 0 0	4,660	4,660	9,320
Comparison.									
Total for corresponding week of previous year	2,509	961 0 0	33,0[illegible]8 0	2,173 0 0	27 0 0	3,161 0 0	546	546	1,092
Per mile of railway corresponding period of previous year ...	66	25 0 0	348 0	56 0 0	......	81 0 0	......	...	
Total to corresponding date of previous year	28,111	10,023 0 0	221,035 0	15,782 0 0	412 0 0	26,217 0 0	4,914	4,914	[illegible]

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 3rd March 1888.			Receipts for week ending 2nd March 1889.			Total receipts from 1st April 1887 to 3rd March 1888.			Total receipts from 1st April 1888 to 2nd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,161	81	38	2,930	77	39	1,13,258	60	38	*1,60,166	88	46,908	......

* Audited up to week ending 22nd December 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 9th March 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	4,060	1,490 0 0	14,392 0	907 0 0	12 0 0	2,418 0 0	509	254	763
Or per mile of railway ...	150	55 0 0	528 0	33 0 0	1 0 0	89 0 0	......	......	......
For previous 8 weeks of half-year	29,207	10,598 0 0	1,31,145 0	7,221 0 0	148 0 0	17,967 0 0	4,436	4,035	8,471
Total for 9 weeks ...	33,267	12,097 0 0	1,45,537 0	8,128 0 0	160 0 0	20,385 0 0	4,945	4,289	9,234
COMPARISON.									
Total for corresponding week of previous year	3,754	1,339 0 0	23,950 0	1,502 0 0	17 0 0	2,858 0 0	509	636	1,145
Per mile of railway corresponding week of previous year ...	136	49 0 0	879 0	55 0 0	1 0 0	105 0 0	......	......	......
Total to corresponding date of previous year	34,325	12,635 0 0	1,90,745 0	9,950 0 0	291 0 0	22,896 0 0	5,090	5,142	10,232

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,858	105	27½	2,418	89	27½	88,989	68	27½	95,626	73	6,637	......

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 9th March 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	47,691	18,397 0 0	1,43,923 0	13,627 0 0	3,319 0 0	35,343 0 0	5,033	6,538	11,571
Or per mile of railway .	175	67 0 0	527 0	50 0 0	3 0 0	120 0 0*	......	......	......
For previous 8 weeks of half-year	349,715	1,28,888 0 0	12,08,718 0	1,17,433 0 0	28,089 0 0	2,74,410 0 0	48,740	51,223	99,963
Total for 9 weeks ...	397,406	1,47,285 0 0	13,52,641 0	1,37,060 0 0	31,408 0 0	3,09,753 0 0	53,773	57,761	1,11,534
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	43,487	16,824 0 0	2,04,937 0	21,194 0 0	2,687 0 0	40,705 0 0	6,117	7,665	13,782
Per mile of railway corresponding week of previous year ...	168	65 0 0	791 0	82 0 0	1 0 0	148 0 0*	......	......	.. ...
Total to corresponding date of previous year	434,603	1,78,078 0 0	20,83,859 0	2,32,924 0 0	29,886 0 0	4,40,888 0 0	66,807	85,514	1,52,321

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	40 705	157	273	35,343	129	252·18	17,12,110	141	265·53	15,59,256a	122	....	1,52,854

a Includes supplementary adjustments.

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 20th March 1889.

REGISTERED No. 29.

No. 13 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 27, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

REVISED RULES UNDER THE INDIAN CHRISTIAN MARRIAGE ACT XV OF 1872.

GENERAL DEPARTMENT—ECCLESIASTICAL.

Calcutta, the 24th March, 1889.

RESOLUTION.

READ again—

Government Resolution, dated the 11th December, 1888, published in Part I of the *Calcutta Gazette* of the 12th idem, prescribing rules under the Indian Christian Marriage Act XV of 1872.

It has been pointed out that in paragraph 1 of the Resolution quoted in the preamble, reference should be made, not to Act VI of 1871, but to Act XII of 1887, and also that, as regards the supply of stationery, more detailed rules should be prescribed. The Lieutenant-Governor is therefore pleased to direct that the following shall be substituted for the paragraph and rules bearing the corresponding numbers in the Government Resolution of the 11th December referred to above.

PARA. 1.—In accordance with the provisions of section 85 of the Indian Christian Marriage Act XV of 1872, the Lieutenant-Governor is pleased to determine that the District Judge for the purposes of the Act shall be the District Judge appointed under the provisions of Act XII of 1887 (the Bengal Civil Courts Act, 1887), and that his jurisdiction shall extend to the local limits fixed by the Local Government under section 13 of Act XII of 1887.

HEAD VIII.—*General rules relating to the foregoing subjects.*

RULE 2.—Government will supply registers and forms to Marriage Registrars. It will supply the first full set of registers and forms to licensed ministers and to persons authorized to grant certificates of marriage between Native Christians, but subsequent supplies of registers and forms must be paid for out of the fees received and obtained from the Superintendent of Stationery, Calcutta, who will intimate to the indenting officer the cost of the forms required. The indenting officer should then send to the nearest civil treasury the amount notified by the Superintendent of Stationery as the cost of the articles required by him, accompanied by a challan in duplicate, which should quote the month and date of the estimate of the Superintendent of Stationery. One copy of the challan will be retained by the treasury, and the other returned duly receipted to the payer of the money to be forwarded to the Superintendent of Stationery to enable him to comply with the indent.

Forms.

RULE 3.—Indents for forms required by the Registrar of the Archdeaconry, the Senior Chaplain of the Church of Scotland, the Archbishop of Calcutta, and the Vicar-General of the Portuguese Missions in Bengal, should be submitted by them to the Superintendent of Stationery.

RULE 4.—All other indents for register books and forms should be made by or through the Commissioner of the Division, or by or through the Senior Marriage Registrar, Calcutta, on the Superintendent of Stationery.

RULE 5.—Forms of indent, containing lists of the books and forms for which each officer can indent, will be found in Appendices 7(*a*) to 7(*d*).

ORDER.—Ordered that a copy of this Resolution be forwarded to all Commissioners of Divisions for their own information and guidance, and for circulation to Senior Marriage Registrars, to Marriage Registrars, and to Ministers licensed or otherwise legally authorized to solemnize marriages within their respective divisions. A list of Marriage Registrars (other than district officers) and of licensed Ministers is herewith forwarded.

Also, that a copy of this Resolution be forwarded to the Registrar-General of Births, Deaths and Marriages, Calcutta, and to the Senior Marriage Registrar, Calcutta, for their own information and guidance, and for circulation to Marriage Registrars and to Ministers licensed or otherwise legally authorized to solemnize marriages within their respective jurisdictions.

Also, that a copy be forwarded to the Ven'ble the Archdeacon of Calcutta, with a request that he will be so good as to cause the Resolution to be distributed among Chaplains and Clergymen acting under the Bishop's license in Bengal.

Also, that a copy be forwarded to the Registrar of the Archdeaconry for information.

Also, that a copy be forwarded to His Grace the Archbishop of Calcutta for information.

Also, that a copy be forwarded to the Very Reverend the Vicar-General of the Portuguese Missions in Bengal for information.

Also, that a copy be forwarded to the Senior Chaplain of the Church of Scotland for information.

Also, that a copy be forwarded to the Superintendent of Stationery for information.

Also, that a copy be forwarded to the Accountant-General for information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

SCARCITY IN THE PATNA DIVISION.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 26th March, 1889.

RESOLUTION.

READ—

A letter No. 166G.F., dated the 20th March, 1889, from the Officiating Commissioner of the Patna Division, reporting on the prospects of the crops and the condition of the people in the districts of that Division during the fortnight ending the 15th idem.

The outturn of the present *rabbi* harvest appears to be fulfilling anticipations, and the condition of the people on the whole is as good as was to be expected. The only places as to the adequacy of the arrangements for which doubts are intimated are Balwa and Madhwapore, in the district of Durbhunga; and the Lieutenant-Governor observes with pleasure that the Commissioner has proceeded to the spot to satisfy himself on this point. The relief afforded in the district of Mozufferpore by the Maharajah of Durbhunga, the Rajah of Sheohur, Baboo Deonundan Singh, and the Sursund zemindars, is remarked by the Lieutenant-Governor with much satisfaction.

2. It has not been deemed necessary to publish the reports submitted between the date of His Honour's visit to Behar, when the result of the partial failure of the rice crop was ascertained, and that of the present letter written when the outturn of the *rabbi* harvest could be stated, as no material change occurred in the interval. The present report and this Resolution will be published in the next issue of the *Calcutta Gazette.*

ORDER.—Ordered that a copy of this Resolution be forwarded for the information of the Commissioner.

Ordered also that a copy of this report and Resolution be submitted for the information of the Government of India.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

SCARCITY IN THE PATNA DIVISION.

THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT;
CALCUTTA,
The 26th March, 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

No. 166G.F., dated Bankipore, the 20th March, 1889.

From—JOHN BOXWELL, ESQ., Offg. Commissioner of the Patna Division,
To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit my report on the prospects of the crops and the condition of the people in the districts of this Division for the fortnight ending the 15th March, 1889.

SARUN.

2. The Collector writes:—

"The rain which fell at the end of the preceding fortnight injured both the poppy and the *rubbi* crops. The former now gives a prospect of 12 annas and the latter of 14 annas outturn."

The prices of some of the food-grains have fallen owing to the introduction of new grains—

Wheat	...	...	...	... from 15 to 16 seers.
Barley	...	...	...	... „ 21¾ „ 25½ „
Indian-corn	...	...	...	... „ 21⅛ „ 24½ „
Rahar	...	...	...	... „ 21 „ 21¼ „

The Collector has forwarded a statement, from which it appears that 1,27,358 maunds of food-grains, principally Indian-corn, were imported, and 7,655 maunds exported during the fortnight: 75 per cent. of the imports were by boat.

PATNA.

3. The Collector writes:—

"The weather during the past fortnight has been favourable to the *rubbi* harvest which is now being gathered. Considerable damage has been done by rain, and in some parts of Behar and Dinapore by hail, during the previous fortnight. The crops already gathered suffered most, as not only was the grain damaged, but the stalks and leaves were rendered unfit for fodder As far as can be judged at present, the outturn of the *rubbi*, including poppy, will be fair in all parts of the district, except in Behar, where the estimated yield does not exceed 9 annas In the Behar sub-division the rice crop suffered most from the floods and subsequent drought, where also, especially in the extreme south, hail caused the greatest injury; so it is this part of the district which furnishes most ground for anxiety. Up to the present, however, the people have been able to maintain themselves, and the Sub-divisional Officer does not anticipate that it will be necessary to open relief works."

Prices are reported to be nearly stationary with a slightly downward tendency.

SHAHABAD.

4. The Collector writes:—

"The harvesting of the *rubbi* is in progress all over the district, and, excepting the limited areas affected by hailstorms, there is every reason to hope for a good outturn of the crops, especially of wheat and barley. The general condition of the people is, on the whole, tolerably good, and, as far as is known, there is at present no ground for anxiety."

The following quotations are given:—

Common rice	...	...	...	16 seers.
Barley	...	...	...	25 „
Wheat	...	...	...	14-15 „
Makai	...	...	...	20 „
Rahar	...	...	...	18 „

It will be seen that, compared with the previous fortnight, prices show a decided downward tendency.

GYA.

5. *Area affected.*—As last reported.

6. *General state of the affected area.*—The Collector writes:—

"At present the cultivators, as well as the labourers, have ample work in harvesting the *rubbi* crops. Taking into consideration the damage done by hail and rain, the outturn of the *rubbi* is estimated at from 10 to 11 annas. There was no rain during the fortnight."

7. *Public works open.*—The District Board's works opened in Kowakol attracted no labourers.

On civil agency works under payment-by-results and task-work systems	482
On works carried out through tuccavi loans	200
Total ...	682

As the Collector considers that there will be a demand for work in April and May, I have placed myself in correspondence with the Superintending Engineer, Sone Circle, regarding the Saranwan pyne. If the project is approved, the services of a competent Engineer will be required to lay out the channel and prepare working sections.

At present in this district there is little demand for labour.

8. *Gratuitous relief.*—Expenditure *nil.*

9. *Advances.*—No advances have yet been made under the Land Improvement Act, the enquiries not being complete. Rupees 325 were advanced during the fortnight under the Agriculturists' Loans Act.

MOZUFFERPORE.

10. *Area affected.*—Unchanged.

11. *General state of the affected tracts.*—There is practically no change to note. The Collector writes :—

"The prospects of the *rubbi* crop continue good, and a general outturn of 8 annas may be expected in the affected area, while for the entire sub-division (Sitamarhi) I estimate an average of at least 10 annas.

"Near Majargunge the prospects of the *rubbi* are reported to be particularly good. *Cheena* and *mung* are coming up well and promise a satisfactory crop, but much depends on the weather for the next month or six weeks.

"The prospects of the *rubbi* crops throughout the district south of the affected area are excellent. Harvesting has now commenced, and I have no doubt that a good average outturn will be obtained."

12. *Public works open.*—From the annexed statements it will be seen that there were 3,964 persons on the District Board's works, on civil agency works there were 792 persons, and on private agency works 6,935 persons, making a total of 11,691 persons labouring on the various works. The increase in the figures of the last fortnight is considerable. As previously noted, the attendance on the 27th February on the Board's works was much larger than shown in the figured statement submitted with the last report. Discounting, however, this additional number, the figures for the fortnight ending the 15th March show a marked increase.

An average daily number of 2,910 persons received gratuitous relief from the Maharajah of Durbhunga, the Rajah of Shewhur and his uncle Baboo Deonundun Singh, and the Sursund zemindars. In this district private agency has relieved the State of the greater part of the burden of relieving distress.

13. *Grain stock and selling prices.*—I append a price-current. Prices on the whole are fairly stationery. Stocks continue to be sufficient. The barley and wheat now being harvested may be expected in the market shortly, and this increase in the food-supply may have the effect of lowering prices generally.

14. *Gratuitous relief.*—The expenditure at the cost of Government under this head was Rs 86-3-3.

15. *Advances.*—An advance of Rs. 400 under the Land Improvement Act is reported.

DURBHUNGA.

16. *Area affected.*—No alteration.

17. *General state of affected tracts.*—The Collector writes :—

"Mr. Greer's report and the fuller details in his diary for the same period show that there has been no appreciable accentuation of distress during the last fortnight except in the neighbourhood of Madhwapore; that the ordinary works have even there proved sufficient up to the date of this report to avert suffering; that still there is a growing number of beggars owing to pressure in Nepal, and this will be met by the special relief tank he has now actually started at Banshi Behari.

"The Police Inspector reports from Madhubani that poor people in Benipatti, Harlaki, Khajowli, Ladownia, Deodha, Phulpras, Lowkahia, Lowkahi and Mudheypore are in want. He, however, adds that the tobacco poppy and *rubbi* crops are in good condition, and that *mung, cheena, marwa* and *sawan* are being sown. As Mr. Greer has been through all his circles, and has kept a careful diary and has been in communication with his circle officers, I think we may accept the above as simply meaning that prices are high and people require work. Crime, however, has increased, mostly due to dark nights."

Mr. Greer writes :—

"I have toured throughout the four circles during the past fortnight, and have noticed no change in the general state of the affected tracts except in Circles A and B, where the ordinary works which have been opened since the 1st instant have relieved the pressure and satisfied to a large extent the demand for employment. During my late visit to Balwa (on the 12th) the demand for further relief was less pressing, but the large number of children, aged and infirm persons wandering in search of alms around this place and Madhwapore still points to the need of opening special works to meet these cases."

From the Collector's report I see that work has been opened on a tank here under special conditions which admit of the tasks being adjusted to the physical capabilities of the labourers. Mr. Greer continues—

"I have lately toured through Circle B, and am of opinion that there is no need yet of any special treatment, our ordinary works being sufficient at present to maintain the needy

portion of the population. In Circles C and D the condition of the working classes is more satisfactory; on several roads there is little or no demand for employment, labourers being fully engaged in cultivation. A considerable increase may be expected to the number now working on the roads on the completion of these field operations."

Cheena sowing is reported to have been completed: this crop will require rain before long to ensure a full outturn.

In the Sudder sub-division rice and *mung* are being sown together in certain limited areas. The mustard, wheat, barley, *masoor* and linseed crops are estimated at 12 annas. In Tajpore the prospects of the *rubbi* are excellent.

18. *Public works open.*—From the return appended, it will be seen that there was a decrease in the number of persons on the District Board's works for the week ending 9th March as compared with the figures for the preceding fortnight. The return for the second week in March has not been submitted. This decrease, however, is probably more apparent than real, as the returns submitted are not complete The actual number according to these returns on the District Board's works on the 9th March was 3,349. Figures have not been given of the attendance on civil agency works.

The returns for attendance upon works carried out by private agency are so incomplete as to be of no value.

The Collector will be asked to give information under these heads in fuller detail with his next narrative.

19. *Stocks of grain and selling prices.*—There has been little or no variation in the selling prices of food-grains during the fortnight. A price-current showing quotations at the principal marts in the several circles is forwarded. It is said that large stocks of grain are being carted to the northern portion of Circles A and B from Bhagulpore and south-eastern part of the Madhubani sub-division.

The steadiness of prices shows that stocks are sufficient. It is noticeable that the quotations are lower in this district than the adjoining district of Mozufferpore.

20. *Gratuitous relief.*—Expenditure *nil.*

21. *Advances.*—No advances have been made under the Land Improvement or Agriculturists' Loans Act during the fortnight.

22. *Crime*—There has been an increase in reported crime in the different tracts. This increase the Sub-divisional Officer attributes to an influx of Nepalese. It is no doubt in part attributable to the distress resulting from high prices. It is not, however, sufficiently marked to call for any special comment.

CHUMPARUN.

23. *Area affected.*—Remains the same.

24. *General state of the affected tract.*—The harvesting of the *rubbi* continues. The Collector writes:—

"Favourable weather prevailed during the fortnight: easterly winds in the morning, dying down from midday, and sometimes succeeded by westerly winds in the afternoon. This conjunction is locally known as *dooas* and is most favourable for agricultural operations. Numbers of labourers find employment in gathering the *rubbi* harvest The *cheena* crop is safe wherever there is artificial irrigation, and elsewhere is still promising well."

25. *Public works open.*—The numbers of works open are—

(*a*)	Under District Board	3
(*b*)	" Civil agency	41
(*c*)	" Private relief agency	3
(*d*)	Carried on through tuccavi loans	44

The average number of persons daily on the above works is, according to the returns herewith submitted—

District Board's works	322
Civil agency	5,320
Private "	795
On works carried out through tuccavi loans (no returns)	600
Total ...	7,037

The figures of attendance (if the numbers on tuccavi loans works, which were not included in the last report, be excluded) show no increase on those for the preceding fortnight. It will be seen from the figured statement that ample employment is provided for all classes, and for the infirm, old and young.

26. *Stocks and selling prices.*—No depletion of stocks is reported. Prices are fairly stationary. The following quotations are given :—

Coarse rice	13½ to 14¼ seers.
Indian-corn	18¾ to 19½ „
Keshari	24$\frac{6}{25}$ seers.

27. *Gratuitous relief.*—Rupees 121-15 were expended in giving gratuitous relief.

28. *Advances.*—The following advances were made during the fortnight :—

	Rs.
Under Land Improvement Act	2,110
Under Agriculturists' Loans Act	5,621

29. I summarise the points of interest in the present report—

(1) Except in Mozufferpore, there has been no increase in the number of labourers on the works as compared with the figures for the preceding fortnight.

(2). Prices remain fairly stationary, a downward tendency being apparent in some districts. Stocks everywhere are said to be sufficient.

(3). In Chumparun a large number of works have been opened, and elaborate provision has been made for affording employment to the infirm, old and young upon these works, so that they can earn their day's ration without going far from their homes. In this district I understand that all the money allotted under the Agriculturists' Loans Act has been, or is about to be, distributed. The return now submitted does not make this clear, as the accounts had not been fully written up at the time of the submission of the reports. These advances, which have been cautiously made to petty agriculturists and others, will have the effect of preventing them from selling *rubbi* crops at a sacrifice, and will tend to keep them off the works.

(4). In Mozufferpore private agency has come to the assistance of the State in a very marked way in providing employment for, and giving gratuitous relief to, distressed persons.

(5). In Durbhunga around Balwa and Madhwapore distress is more marked than elsewhere. The Sub-divisional Officer reports that he has come across beggars and children wandering in search of alms.

Crime also has increased slightly. These unfavourable symptoms have shown themselves, however, in only two localities. It does not appear that private agency in this district has as yet done much towards bearing its share of relieving distress. Advances under the Agriculturists' Loans Act have been given out on a very limited scale and no gratuitous relief, as the task-work system is only now being introduced. I have proceeded on tour to Circles A and B with a view to satisfying myself that the measures which it is now proposed to adopt are sufficient. I hope in my next report to be able to submit information regarding this.

(6). Gratuitous relief continues to be given with due discretion at the expense of the State, and up to date, except from Durbhunga, where the cases are few and are being carefully watched, no reports have been received which indicate that extreme pressure is being felt by any classes of the community.

(7). With my next report I will submit a financial statement showing the allotments made and the expenditure actually incurred in all districts from the commencement of operations up to the 1st April.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 23rd March 1889.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.					
		Western Districts.			
BURDWAN DIVN.	1	Burdwan	Mar. 23, '89	Nil	Weather—seasonable. Prospects very fair, and a 12-anna harvest in progress or approaching. Rice has suddenly risen in price at Burdwan and Culna.
	2	Baukoora	„ 23, '89	Nil	Weather—seasonable. *Rubbi* harvest finished. *Til*, indigo and cotton coming up well. Rain wanted for ploughing. No change in prices
	3	Birbhum	„ 23, '89	Nil	Weather—at times cloudy with squalls of wind, but no rain. State and prospects of crops continue good. Price of rice shews a slight rise. Prices of all other food-grains stationary.
	4	Midnapur	„ 23, '89	Nil	Weather—warm. *Boro* crop doing well.
	5	Hugli	„ 23, '89	A few drops on 19th instant	Weather—hot. *Boro dhan* promises well.
		Howrah	„ 25, '89	0·44	Weather—mornings and evenings pleasant, warm during day. Rain has done good to the *boro* crop, which is doing well.
		Ulubarya	.	0·24	
		Central Districts.			
PRESIDENCY DIVN.	6	24-Perghs.	Mar. 26, '89	0·63	Some rain fell during the week. Weather hot and cloudy. Manufacture of sugar progressing. Tillage going on.
	7	Nuddea	„ 23, '89	0·01	Weather—days hot, mornings cool. Harvesting of *rubbi* crops nearly finished. Ploughing for next crop going on.
		Chooadanga	...	0·90	
		Ranaghat	...	0·03	
	8	Khoolna	„ 23, '89	0·06	Weather—growing warm. Prospects and condition of crops good.
	9	Jessore	„ 23, '89	0·11	Weather—days hot, nights cool Tillage for early rice is in progress. Rain badly wanted. Harvesting of *rubbi* crops nearly over.
		Magoora		0·08	
		Narail	..	0·03	
		Bongong		0·12	
	10	Moorshedabad	„ 23, '89	0·02	Weather—hot days, cool mornings. Lands are being prepared for *aus* *Rubbi* harvesting going on.
RAJSHAHYE DIVN.	11	Dinagepur	„ 23, '89	Nil	Weather—warm. Hot winds have set in. Sugarcane pressing going on. Price of rice unaltered.
	12	Rajshahye	„ 23, '89	Nil	Weather—very hot. Symptoms of a north-wester coming. Cultivation of *boro* paddy going on. Rain wanted Spring crops are being reaped. Rice sells at 17¼ seers per rupee.
	13	Rungpur	„ 23, '89	0·40	Weather—nights cool, days hot with high winds. *Aus* sowings still in progress. Prospects good. More rain wanted.
		Nilphamari	.	0·02	
		Kurigram	...	0·25	
	14	Bogra	„ 23, '89	0·05	Weather—high winds for the last three days. Hot during day Mornings pleasant Occasional clouds. State and prospects of crops satisfactory. *Khesari*, peas, barley, wheat and linseed are being harvested. *Aus* and jute are being sown. Price of rice unaltered.
		Nowkhilla	.	0·05	
	15	Pubna	„ 23, '89	Nil	Weather - hot, cloudy at times *Rubbi* crops suffering for want of rain. Sowing of *boro dhan* and planting of sugarcane continue.
	16	Darjeeling	„ 23, '89	0·02	Weather—fine. Prospects of crops favourable.
	17	Julpigoree	„ 23, '89	Nil	Weather—seasonable Harvesting of *rubbi* crops continues. Prospects fair. Preparation of land for next season's crop going on. Common rice sells at 17 seers a rupee.
		Eastern Districts.			
DACCA DIVN.	18	Dacca	Mar. 23, '89	Nil	Weather—getting warm. Fine and windy. Ploughing for *aus* and *amun* paddy and jute is going on. Paddy crops are being sown in low lands. *Boro* paddy is thriving, but damage is anticipated for want of rain. Rain is also much needed for early sowings of rice.
	19	Furreedpur	„ 23, '89	0·30	Weather—hot. Lands have been prepared for *aus* and *amun* crops.
	20	Backergunge	„ 21, '89	0·40	Weather—cool night and morning, hot day. Prospects of crops fair.
	21	Mymensingh	„ 22, '89	0·05	Weather—hot and windy. Prospects of crops good. Rain wanted for cultivation.
CHITTAGONG DIVN.	22	Chittagong	„ 26, '89	0·48	Weather—seasonable. Rain has a little improved the condition of crops. Rain still wanted. Prices stationary.
	23	Noakholly	„ 22, '89	1·47	Weather—cloudy and hot. Harvesting of *rubbi* crops nearly completed. Preparation of soil for *aus* crop going on. The late rain has done good to the crops.
	24	Tipperah	„ 21, '89	Nil	Weather—seasonable. State and prospects of crops satisfactory. Rain is wanted.
		Brahma	...	0·06	
	25	Chittagong Hill Tracts.	„ 19, '89	Nil	Weather—foggy in the morning and sultry from noon till midnight. *Jum* cutting continues. Tobacco and chillies doing well. Rain much wanted.
		Hill Tipperah	„ 21, '89	Nil	Weather—cloudy and windy. *Boro* paddy and chillies not thriving well for want of rain.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
Patna Divn.			
26	Patna Mar. 23, '89	Nil	Weather—clear and warm. *Rubbi* harvest going on. Gathering of *mussoor*, peas and mustard is completed. Weather favourable to the poppy crop Prices stationary.
27	Gya " 23, '89	Nil	Weather—hot. *Rubbi* crops are being harvested. Extraction of opium is nearly finished.
28	Shahabad " 23, '89	Nil	Weather—hot and fine Harvesting of *rubbi* crops continues. Prices generally stationary, but falling in some parts of the district.
29	Durbhunga " 23, '89	Nil	Weather—hot west winds set in, the mornings and evenings, however, being still cool. *Rubbi* harvest is fairly progressing. In south, linseed is expected to yield 12 annas. Poppy, 14 annas, being gathered. Rice, *mung* and *cheena* are being sown. Prices stationary.
30	Mozufferpur " 23, '89	Nil	Weather—clear, with strong west winds. *Rubbi* harvest continues. Rice being sown in some places. *Cheena* and *mung* doing well.
31	Sarun " 23, '89	Nil	Weather—hot and seasonable. *Rubbi* being harvested. *Cheena* and indigo doing well.
32	Chumparun " 23, '89	Nil	Weather—clear and warm; west wind prevailing. *Rubbi* harvest and opium extraction progressing. Moderate rain is required for *cheena* in the affected area. Indigo sowings nearly finished.
Bhagulpore Divn.			
33	Monghyr " 23, '89	Nil	Weather—bright and hot with westerly winds. Harvesting of *rubbi* in progress; an average outturn of 12 annas expected.
34	Bhagulpur " 23, '89	Nil	Weather—seasonable. *Rubbi* harvest continues with very fair outturn, except on small areas damaged by hail. *Mung* and *dhan* being sown in low lands in northern sub-division. *Mohwa* prospects in south still favourable, and the flower is dropping.
35	Purneah " 23, '89	Nil	Hot winds during the day. All *rubbi* crops being harvested; outturn about 12 to 14 annas.
36	Maldah " 23, '89 Shibgunge ...	Nil 0·02	Weather—getting warm, and westerly winds have begun to blow. *Rubbi* harvest is going on. *Boro* paddy is still being transplanted in places, and thriving. *Bhadoi* paddy is being sown. Rain now will do much good.
37	Sonthal Perghs. " 23, '89	Nil	West winds. Still weather to-day (23rd). Harvesting of *rubbi* crops going on; estimated outturn 12 annas. *Mohwa* is being gathered, and promises well, but is backward.
ORISSA.			
Orissa Divn.			
38	Cuttack " 22, '89	0·03	Weather—seasonable. *Dalua* rice ripening. Common rice sells at 17 seers 1 chittack per rupee in town.
39	Pooree " 21, '89	Nil	Weather—very hot. Rain is wanted for ploughing the lands for the ensuing *sarad* crop and for the *dalua* crop. *Mung* is in pod. Kulthi is being gathered. Common rice 18 seers 1 chittack per rupee in the Sudder sub-division and 15 seers 6 chittacks in the Khoordah sub-division.
40	Balasore " 22, '89	0·14	Weather—cooler since the storm of 20th. *Dalua* rice doing well. More rain urgently required.
CHOTA NAGPORE.			
South-West Frontier Agency.			
Chota Nagpore Divn.			
41	Hazaribagh Mar. 22, '89	0·24	Weather—seasonable. Thunderstorms with a little rain during the last two days. *Rubbi* still being harvested; 6 to 12 annas outturn. Sugarcane doing well. Prospects of mango very indifferent. *Mohwa* prospects generally favourable so far. Prices stationary.
42	Lohardugga " 23, '89	0·21	Weather—unsettled Slight rain during the week with heavy storms on 20th and 21st. *Rubbi* is being harvested; a poor outturn is estimated. Prices somewhat rising.
43	Singbhoom " 22, '89	Nil	Weather—hot in the day, but cool at night. Remaining *rubbi* crops being harvested. Prices stationary.
44	Manbhoom " 23, '89	Nil	Weather—hot. Wheat, barley, *arhar* and other *rubbi* crops are ripening *Mohwa* falling. Outturn has been damaged by high winds, and will not exceed 8 annas. Rice selling at from 18 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 26th March 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan .	14 8	13 4	13 4		No sale.		15 0	15 0	19 8	17 10	18 0	24 6	...	...	...
2	Bankoora ...	12 12	12 8	14 8	16 0	15 0	19 0	17 8	17 8	19 8	20 0	20 0	20 7½		..	...
3	Beerbhoom ...	11 4	11 8	13 8	...	...	...	13 8	13 4	15 12	16 8	16 8	21 0	...	...	...
4	Midnapore ...	10 0	10 0	15 0	40 0	40 0	...	16 0	15 0	22 0	20 0	20 0	25 0	...	...	...
5	Hooghly ..	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0	13 0	13 0	17 0	...	...	...
	Howrah ..	...		...	...	..	...	12 0	12 0	14 0	16 0	16 0	20 0	.	.	..
	Central Districts.															
	Calcutta ..	13 0	12 15	13 3	17 11	15 15	20 13	10 0	9 9	10 15	14 10	14 9	17 8	17 9	16 11	16 0
6	24-Pergunnahs	14 0	12 4	16 0	16 0	16 0	22 8	8 0	8 0	8 0	16 8	16 8	20 0		...	...
7	Nuddea ...	16 0	14 0	16 0	22 13	17 12	32 0	13 5	13 5	14 8	16 4	16 4	19 0	...	...	...
8	Khoolna	...	...	...	..	...	..	14 0	14 0	21 0	16 0	16 0	23 0	...	...	...
9	Jessore ..	13 0	12 8	13 4	...	...	...	13 0	13 0	16 0	16 0	16 0	24 10	...		...
10	Moorshedabad	14 0	13 5	15 0	...	...	...	14 0	13 8	18 0	17 0	17 0	23 0	...	...	...
11	Dinagepore .	11 4	12 0	15 0	9 9	11 0	30 0	17 0	15 8	20 0	19 3	19 3	24 12	...	...	...
12	Rajshahye .	15 0	13 8	16 8	37 8	26 4	45 0	13 8	14 4	16 8	15 0	16 8	21 12	.	...	...
13	Rungpore .	12 4	14 8	11 6	...	...	...	10 8	10 8	13 4	16 0	16 0	20 0	...	...	...
14	Bogra ..	13 8	12 0	15 0	...	..	...	18 8	15 0	15 0	19 8	19 8	26 4	...	..	...
15	Pubna ..	19 8	15 12	16 0	...	..		8 0	7 8	8 0	18 0	18 0	22 8	..	...	...
16	Darjeeling ..	10 0	10 0	10 0	10 0	6 0	11 0	6 0	6 0	5 0	12 0	13 0	14 0	...	...	...
17	Julpigoree	10 0	10 0	12 0	16 0	16 0	20 0	8 0	8 0	14 0	17 8	17 8	20 0	.	...	...
	Eastern Districts.															
18	Dacca ..	15 8	15 8	14 8	26 0	26 0	40 0	16 0	15 0	19 12	17 0	17 0	25 0	..	...	...
19	Furreedpore ..	16 0	16 0	17 0	20 0	20 0	40 0	9 0	9 0	15 0	16 0	16 0	24 0	...	...	...
20	Backergunge ...	..	..	..	..	...	...	13 4	14 0	15 0	14 12	16 8	20 8	...	...	...
21	Mymensingh ..	10 0	10 0	13 12	...	...	...	18 0	12 0	12 0	18 0	18 0	18 0	...	...	...

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9 seers 15 chittacks, and Raneegunge 9 seers.
B At Rampore Haut retail price of salt 10½ seers per rupee
C In sub-divisions retail prices of salt per rupee are : Ghatal 10¾ seers, Tumlook 8 seers, and Contai 10 seers.
D At Jehanabad retail price of salt 10 seers per rupee.
E In sub-divisions retail prices of salt per rupee are :—Barasot and Bussirhat 9 seers, Diamond Harbour (at Kulpihat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In sub-divisions retail prices of salt per rupee are :—Kooshtea, Choodanga, and Ranaghat 10 seers, and Meherpore 10½ seers.
G In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers [illegible] chittacks and Bagirhat 8 seers.
H In sub-divisions retail prices of salt per rupee are : -Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers
I In Lalbagh, Kandi, and Jungipore sub-divisions retail price of salt 10 seers per rupee.

EERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*) Present return.	Next preceding return.	Corresponding return of last year.	Marua or Ragi. (*Eleusine Coracana.*) Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
.	.	...	...	...	...
...	...	...	...	...	...
13 9	12 15	11 13	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	.	...	...	...	...
...	..	..	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	14 0	14 0	14 0
...	...	..	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

the Districts of Bengal on the 15th March 1889.

Firewood. Present return.	Next preceding return.	Corresponding return of last year.	Salt. Present return.	Next preceding return.	Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
									BENGAL.
									Western Districts.
Ch.	S Ch	S. Ch.	Ch. S.	S. Ch	S Ch	Rs. A. P.	Rs. A. P.	Rs. A. P.	
7 0	1·7 0	120 0	(A) 10 2	10 2	10 8	3 11 6	3 11 6	3 11 3	Burdwan.
0 0	28. 0	320 0	10 0	10 0	10 8	3 14 0	3 14 [illegible]	3 11 0	Bankoora.
0 0	160 0	160 0	(B) 9 12	10 0	10 8	3 13 0	3 13 0	3 6 0	Beerbhoom.
:0 0	160 0	120 [illegible]	(C) 10 4	10 4	9 0	3 14 0	3 14 0	4 4 0	Midnapore.
10 0	120 0	120 0	(D) 9 0	9 0	9 0	4 6 0	4 6 0	4 6 0	Hooghly.
)0 0	100 0	100 [illegible]	:0 8	10 8	9 2	3 11 0	3 11 0	4 0 0	Howrah.
									Central Districts.
18 2	100 0	95 0	10 5	10 5	9 10	3 9 6	3 9 6	3 13 7	Calcutta.
10 0	100 0	90 0	(E) 10 4	10 4	9 8	3 10 0	3 10 0	3 14 0	24-Pergunnahs.
...	...	..	(F) 9 2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea.
10 0	160 0	160 0	(G) 9 2	9 2	8 0	4 0 0	4 0 0	4 8 0	Khoolna
1. 0	16. [illegible]	100 0	(H) 9 2	9 2	8 0	4 0 0	4 0 0	4 4 0	Jessore
10 0	200 0	200 0	(I) 10 0	10 0	11 0	.	...	3 10 0	Moorshedabad.
5 0	160 0	160 0	9 8	10 0	9 12	4 0 0	3 15 0	3 15 0	Dinagepore
6 0	240 0	240 0	(J) 9 9	9 9	8 4	4 0 0	4 0 0	4 5 4	Rajshahye
10 0	120 0	120 0	(K) 9 6	9 6	8 5	4 4 0	4 4 0	4 13 0	Rungpore
16 0	96 0	90 0	8 4	9 0	8 4	4 5 4	4 5 4	..	Bogra.
10 0	200 [illegible]	200 0	(L) 9 2¼	9 2¼	9 6	4 0 0	4 0 0	4 5 0	Pubna.
10 0	120 0	2. 0	(M) 8 0	8 0	8 0	...		...	Darjeeling
1. 0	128 0	128 0	(N) 9 0	9 0	9 0	4 2 0	4 2 0	4 6 0	Julpigoree.
									Eastern Districts.
20 0	120 0	120 0	(O) 10 0	10 0	8 0	3 11 0	3 14 0	4 4 0	Dacca.
20 0	120 0	140 0	9 0	10 0	11 0	4 0 0	3 14 0	3 4 0	Furreedpore.
20 0	1.0 0	120 0	(P) 10 10	10 10	9 2	3 12 0	3 12 0	3 12 0	Backergunge
.	.		(Q) 9 8	9 8	9 6	4 4 0	4 2 0	4 4 0	Mymensingh

er rupee are :—Nattore 9¾ seers and Nowgong 8 seers 11 chittacks.
lt per rupee are :—Gaibanda 8 seers, Nilphamari 10 seers.
seers per rupee.
s per rupee.
retail price of salt 8 seers per rupee.
er rupee are :—Manickgunge 9 seers, Munshigunge 8 seers 14 chittacks, and Naraingunge

er rupee are :—Patuakhali 8 seers, Perozepore 9 seers, and Bhola 8 seers.
per rupee are :—Kishoregunge 8 seers, Attea 10 seers, Jamalpore 9½ seers, Sherepore

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	.	...	...	12 0	12 0	13 0	15 0	14 0	20 4	...	...	... R
23	Noakholly ...	...	...	...	...	.	...	14 0	15 0	20 0	15 0	16 0	21 0	...	...	... S
24	Tipperah ..	12 8	12 8	13 8	...	...	.	16 0	16 0	17 8	18 0	18 0	25 0	.	...	...
25	Chittagong Hill Tracts	..	..	...	...	...	...	11 6¾	11 6¾	14 8½	12 10½	13 5½	16 0	...	...	...
	Hill Tipperah ...	6 0	6 0	18 0	.	...	..	9 0	9 0	15 0	18 0	18 0	28 0	...	...	.
	BEHAR.															
26	Patna ...	18 0	17 0	16 0	22 0	22 8	29 0	11 0	11 0	11 8	16 8	16 2½	20 8	25 0	25 0	22 0
27	Gya ...	15 8	15 0	15 8	21 0	18 0	24 0	9 0	10 0	10 0	15 0	15 0	18 0	...	...	...
28	Shahabad ...	14 8	16 0	14 8	25 0	20 0	22 8	9 0	9 0	10 8	15 0	15 0	18 8	20 0	20 0	20 T
29	Durbhunga ...	14 4	16 8	13 8	...	18 12	35 0	10 0	10 0	14 8	14 4	15 8	20 12	...	...	...
30	Mozufferpore ..	13 0	12 0	13 0	...	..	30 0	9 8	9 0	12 0	13 0	12 8	20 0	...	...	...
31	Sarun ...	16 0	15 0	15 0	25 8	21 12	26 12	8 12	8 12	8 8	14 4	14 10	20 10	...	...	...
32	Chumparun ..	13 0	13 0	11 0	14 0	16 0	30 0	7 0	7 0	12 0	13 0	13 0	19 0	..	...	...
33	Monghyr ...	15 12	15 12	19 6	26 4	...	24 2	12 9	13 12	13 14	15 8	16 8	17 13	...	...	-
34	Bhagulpore ...	15 12	15 2	15 2	15 2	17 10	30 6	13 14	13 14	16 6	15 2	15 2	20 8	..	...	...
35	Purneah ...	13 0	12 0	16 0	11 0	...	26 8	15 0	15 0	21 0	16 0	18 0	22 0	...	...	...
36	Maldah ...	13 0	13 0	18 8	...	...	...	10 0	10 0	13 0	17 0	17 0	23 0	...	...	...
37	Sonthal Perghs.	11 4	11 0	11 0	...	...	..	14 0	14 0	16 0	16 8	17 0	21 0	...	...	...
	ORISSA.															
38	Cuttack ...	13 2	13 2	14 7	...	...	...	11 13	11 13	10 8	17 1*	17 1	21 0	...	...	...
39	Pooree ...	11 13	11 13	13 2	...	...	...	11 13	11 13	17 1	17 1	17 1	23 10	...	...	...
40	Balasore ...	13 0	13 0	16 0	18 0	18 0	18 0	12 0	12 0	14 0	19 0	21 0	25 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	17 0	13 0	16 0	.	...	20 0	8 0	8 0	9 0	16 0	16 0	16 8		..	...
42	Lohardugga ...	14 0	13 0	15 0		...	20 0	13 0	13 0	16 0	14 0	14 8	18 0	...	...	...
43	Singbhoom ...	10 0	10 0	12 0	14 0	14 0	16 0	16 0	16 0	14 0	20 0	20 0	22 0	...	...	...
44	Manbhoom ...	14 0	14 0	12 0	...	...	32 0	15 0	14 0	14 0	21 8	22 0	22 0	...	...	...

* Common rice at Jajpore 23 seers 10 chittacks per rupee and at Kendrapara 21 seers per rupee.

R At Cox's Bazar retail price of salt 8 seers per rupee.

S At Panchgachia in Fenny sub-division retail price of salt 8 seers per rupee.

T In Buxar and Sasseram sub-divisions retail price of salt 10 seers per rupee.

U In sub-divisions retail prices of salt per rupee are :—Madhubani 10 seers and Tajpore 10½ seers.

V At Hajipore and Sitamarhi retail price of salt 10 seers per rupee.

CALCUTTA,

The 26th March 1889.

ricts of Bengal on the 15th March 1889—(concluded).

BAJRA OR CUMBU. (*Pennisetum typhoideum.*) Present return.	Next preceding return.	Corresponding return of last year.	MARUA OR RAGI. (*Eleusine Corocana.*) Present return.	Next preceding return.	Corresponding return of last year.	.)	FIREWOOD. Present return.	Next preceding return.	Corresponding return of last year	SALT. Present return.	Next preceding return.	Corresponding return of last year.	WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT. Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	h.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
																Eastern Districts—concluded
...	...	...	...	...	...		108 0	108 0	11) 0	R 9 0	9 8	7 0	4 0 0	4 0 0	4 10 0	Chittagong
...	...	...	...	...	...		...	...	...	S 8 0	8 0	7 0	4 8 0	4 8 0	4 10 0	Noakholly.
...	...	...	...	...	...	0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 8 0	Tipperah
...	...	...	...	...	...		320 0	320 0	320 0	8 0	8 0	6 6	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts.
...	...	...	...		...	0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah
																BEHAR.
...	...	...	...	...	...	0	130 0	130 0	12) 0	10 0	10 0	10 0	3 12 6	3 12 3	3 12 0	Patna.
...	...	...	...	...	...	8	200 0	200 0	160 0	8 12	8 12	9 8	4 2 9	4 2 9	4 4 0	Gya.
...	...	...	...	...	...	)	160 0	160 0	120 0	T 10 0	10 0	10 0	.....	..	......	Shahabad
...	...	...	19 12	19 12	33 0	2	176 0	176 0	16) 0	U 11 0	11 0	9 8	3 10 2	3 10 2	3 13 0	Durbhunga.
...	...	...	...	...	30 0	)	160 0	160 0	160 0	V 10 0	10 0	9 8	3 12 0	3 12 0	4 2 0	Mozufferpore.
...	...	...	20 0	20 0	30 0	)	180 0	20) 0	160 0	10 0	10 0	9 8	3 15 0	3 15 0	4 2 0	Sarun
...	...	...	20 0	20 0	30 0	)	160 0	160 0	160 0	W 9 8	9 8	9 0	4 1 0	4 0 0	4 4 0	Chumparun.
...	...		...	...	...	(	147 0	147 0	126 0	X 9 8	9 8	10 8	4 0 0	4 0 0	3 5 6	Monghyr.
...	...	...	...		...	(	151 0	176 8	164 0	10 1	10 1	10 1	3 14 0	......	3 12 0	Bhagulpore
...	...	...	18 0	...	33 0		200 0	200 0	120 0	Y 9 4	9 0	8 8	4 5 0	4 5 0	4 13 3	Purneah.
...	...	...	...	...	...		120 0	120 0	120 0	9 8	10 0	9 0	4 0 0	......	4 4 0	Maldah
...	...	...	...	...	...		200 0	200 0	200 0	9 0	9 0	9 8	4 3 0	4 3 0	3 15 0	Sonthal Perghs.
																ORISSA.
...	...	...	...	...	...		80 0	80 0	80 0	12 0	12 0	10 0	3 3 0	3 3 0	3 14 0	Cuttack.
...	...	...	...	...	...		80 0	80 0	70 0	11 13	11 13	9 4	3 6 0	3 6 0	3 12 0	Pooree.
...	...	...	...	...	...		160 0	160 0	200 0	9 0	9 0	8 8	4 0 0	4 1 0	4 7 0	Balasore
																CHOTA NAGPORE
																South-West Frontier Agency
...	...	...	22 0	21 0	27 0		320 0	320 0	320 0	8 0	8 0	8 0	4 6 0	4 4 0	4 6 6	Hazaribagh
...	...	...	27 8	28	34 0		140 0	140 0	140 0	Z 8 8	8 8	9 6½	4 8 0	4 8 0	4 4 0	Lohardugga.
...	...	...	...	...	...		20) 0	20) 0	240 0	8 0	8 0	8 0	......	......	......	Singbhoom.
...	...	...	...	...	...		200 0	200 0	200 0	Z1 9 0	9 0	9 2	4 2 6	4 2 6	4 4 0	Manbhoom.

seers per rupee.
t per rupee are :—Begusarai 9½ seers and Jamui 9 seers.
10 seers per rupee.
8 33 seers per rupee.
9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 13 3	2 13 5	2 12 10	2 0 3	2 5 8	1 10 6	3 12 2	3 14 10	3 6 7	2 7 9	2 7 10	2 1 4
2	Serajgunge ...	2 4 0	2 5 0	2 0 0	...	...	...	3 8 0	3 9 0	3 8 0	2 6 0	2 5 0	1 14 0
3	Dacca	2 8 0	2 8 0	2 12 0	1 8 0	1 8 0	1 0 0	2 8 0	2 10 0	1 15 0	2 5 0	2 5 0	1 9 0
4	Narainganje	...	...	...	...	...	...	2 6 0	2 6 0	2 4 0	2 4 0	2 4 0	...
5	Chittagong	3 9 0	3 9 0	3 8 0	...	...	...	3 4 0	3 4 0	2 12 0	2 10 0	2 10 0	1 15 0
6	Patna ...	2 3 0	2 5 0	2 6 0	1 12 0	1 12 0	1 5 0	3 8 0	3 8 0	3 0 0	2 6 6	2 6 0	1 13 9
7	Balasore ...	3 0 0	3 0 0	2 4 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	2 12 0	1 13 0	1 11 0	1 8 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	2 2 6	2 2 6	1 8 0
9	Cuttack ...	3 0 0	3 0 0	2 10 0	...	...	...	3 4 0	3 4 0	3 10 0	2 0 0	2 0 0	1 11 0

CALCUTTA

The 26th March 1889.

undermentioned Marts of Bengal on the 15*th March* 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur, Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 4 6	2 5 3	1 15 5	2 5 0	2 4 0	1 8 8	2 2 10	2 2 5	1 15 1	0 6 0	0 5 9	0 6 8	3 9 6	3 9 6	3 13 7	Calcutta.
2 9 0	2 10 0	2 4 0	...	...	...	...	...	...	...	...	...	3 13 0	3 13 0	3 14 0	Serajgunge.
3 0 0	3 0 0	2 8 0	...	...	...	2 8 0	2 8 0	3 0 0	0 5 0	0 5 0	0 5 3	3 14 0	3 14 0	4 4 0	Dacca.
3 0 0	3 0 0	2 8 0		...	...	3 2 0	3 2 0	3 [illegible] 0	0 8 0	0 10 0	0 10 0	3 12 0	3 12 0	5 0 0	Narainganj.
3 8 0	3 8 0	4 8 0	..	...	...	...	...	...	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	4 10 0	Chittagong.
1 9 0	2 0 0	1 7 6	1 11 6	1 11 9	1 5 0	1 9 0	1 10 0	1 7 0	0 5 0	0 5 0	0 5 0	3 12 6	3 12 3	3 12 0	Patna.
2 14 0	2 14 0	2 14 0	...	..	...	..	...	...	0 4 6	0 4 6	0 4 0	4 0 0	4 1 0	4 7 0	Balasore.
...	...	...	.	..	..	...	.	...	...	...	...	3 6 0	3 6 0	3 12 0	Pooree.
1 11 0	1 11 0	1 11 0	...	...	...	2 5 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 3 0	3 3 0	3 14 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District	Representative station	Air pressure: Mean barometric height, 8 A.M.	Air pressure: Mean reduced to sea-level	Air pressure: Variation from mean	Wind: Prevailing direction	Wind: Mean wind velocity	Temperature: Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree	29·938	29·946	—	SW	302	93·6	22nd March	75·1	22nd March	*87 8	*77·2	*82·5	—	80 0
		Gopalpore	29 899	29 919	+·002	SW	473	83·2	21st ,,	77·8	16th & 17th March	84·8	78·8	81 8	+1·8	80·1
		False Point	29·931	29 953	+·011	SSW	305	87·4	22nd ,,	74·6	21st & 22nd March	86 5	75·7	81·1	+0·5	79 6
	Cuttack	Cuttack	29·864	29 945	+·018	Southerly	75	102·4	16th ,,	72·8	22nd ,,	98·9	76 0	87 5	+2·3	79 6
	Balasore	Balasore	29 903	29·963	+·030	SSW	208·4	99·4	16th ,,	68·9	22nd ,,	92 6	73·8	83·2	+1·3	78 4
South-West Bengal	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29 917	29 943	+·014	SSW	401	88 7	16th, 17th & 19th March	77 5	16th & 17th March	88·1	78·4	83 3	+1·7	80 6
	Midnapore	Midnapore	29 77[illegible]	29·931	—·003	S	106·3	101·3	21st ,,	70·2	16th ,,	*97·8	*73·9	*85 8	+3·2	79·6
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·908	29 930	+·004	SW	110	94 5	20th & 21st March	71 2	22nd ,,	92 0	72·0	82 5	+1·9	77 9
	Burdwan	Burdwan	29·809	29 911	— 011	SW & S	80 0	100·2	20th & 21st March	70 7	16th ,,	97 2	73 8	85·5	+4·0	77 3
	Bankoora	Bankoora	29·600	29·905	—	Calm & westerly	105	101·1	21st ,,	67·6	16th ,,	99 1	73 6	86 4	—	79·4
	Beerbhoom, West Burdwan	Raneegunge	29 581	29 894	—·014	WSW	70·4	100 5	21st ,,	69 4	16th ,,	98·7	74·4	86·5	+4 2	79 6
	Moorshedabad	Berhampore	29 849	29 917	0	Westerly	109·8	99·7	20th ,,	66·2	16th ,,	95 7	71·9	83 8	+3·8	76 9
	Nuddea	Krishnaghur	29·877	29·944	+·017	SE & SW	135·2	98 2	20th ,,	68 1	16th ,,	95 2	71 7	83 5	+3·0	78 0
	Jessore, Khoolna	Jessore	29 906	29 940	+ 014	SE & SW	84 7	99·3	21st ,,	65 5	16th ,,	94 7	72·6	83 7	+2·6	78 6
East Bengal	Chittagong	Chittagong	29·891	29 982	+ 014	SE	88·1	88 1	18th & 19th March	67 0	16th ,,	86 7	70 1	78 4	+0 8	75·6
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·940	29 952	+·022	S	91·8	91·8	21st March	69 9	17th ,,	89 0	73·1	81·1	+2 0	78 1
	Noakholly	Noakholly	29·921	29 965	+ 025	Southerly	125 0	87·7	21st ,,	65 7	18th ,,	86 6	70·2	78·4	+0·9	79 4
	Furreedpore	Furreedpore	29·939	29 951	+·032	SW	135	86 5	21st ,,	69·4	17th ,,	86 1	71 9	79 0	+1·2	76·7
	Dacca	Dacca	29 924	29 947	+·018	SW	124 8	99 1	21st ,,	70·2	17th ,,	93·5	72 4	83 0	+2 6	77·9
	Commillah	Commillah	*29·957	29·992	+·048	SE	55 7	92·3	20th ,,	67·8	17th ,,	91 1	72·2	81 6	+2·7	77 2
	Mymensingh	Mymensingh	29 886	29 915	+ 019	ESE	264 3	97 6	21st ,,	67 0	22nd ,,	92·8	71 0	81·9	+6 5	75·8
North Bengal	Bogra	Bogra	29 837	29 902	—·024	SE	133 6	98 3	21st ,,	67 8	16th & 22nd March	95 1	70 0	82 6	+4 3	75·9
	Pubna	Serajgunge	29 571	29 919	— 007	SSE	104·2	98·2	21st ,,	67 7	22nd ,,	94 2	70·3	82·3	+5·1	76 3
	Rajshahye	Rampore Beauleah	29 846	29·917	+ 018	Southerly	136 7	97 3	21st ,,	68 7	16th & 22nd March	94·1	71·1	82 6	+4 3	77 7
	Maldah	Maldah	29 844	29·926	—	Westerly	92 1	97 1	21st ,,	61 8	16th ,,	95 3	65 1	80·2	—	79·7
	Dinagepore	Dinagepore	29·778	29·902	— 027	NE	121	94·1	20th ,,	65·2	16th & 22nd March	92·6	67·3	80·0	+3·7	74 8
	Rungpore	Rungpore	29·792	29 920	+ 004	Easterly	110	92 6	20th ,,	66·5	20th & 22nd March	90·4	67·5	79 0	+3·9	74 2
	Julpigoree, Cooch Behar	Julpigoree	29·630	29 926	—·015	North-easterly	60 2	89·0	17th & 19th March	57·9	22nd ,,	87·4	62·5	75·0	+1·0	71·2
	Darjeeling Hill Tracts	Darjeeling	22 991	—	+·007	Calm	237 4	63·6	21st ,,	45·5	16th ,,	60·7	47·7	54·2	+3·4	53·1
North Behar	Purneah, North Bhagulpore	Purneah	29 768	29·898	— 012	NE	91 7	94·2	20th & 22nd March	64 5	20th ,,	92·9	67·7	80·4	+4 3	75·1
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·733	29 904	—·007	SE	119	91·9	22nd March	68 9	20th ,,	89 4	70·8	80 1	+4·5	75·7
	Chumparun	Motihari	Complete observation not at hand.													
	Sarun	Chupra	29·690	29 888	—·030	W	136·7	80·5	20th March	66 8	16th March	77·5	69·3	73 4	—4·6	77·1
South Behar	Shahabad	Dehree	Complete observation not at hand.													
		Buxar	29·672	29·919	—·003	WNW	151·2	98·4	20th & 21st March	68·3	16th ,,	96·5	71·2	83·9	+5·5	78·0
		Arrah	29·713	29·914	+·010	W	78·6	100·4	21st ,,	64 8	16th ,,	97·3	69·1	83 2	+5·0	76·6
	Gya	Gya	29·560	29·948	+·025	Variable	189 0	98·5	19th ,,	66·2	22nd ,,	*96·5	*68·4	*82·5	+2·5	76·5
	Patna	Bankipore	29 722	29·909	—·006	W	97·4	99 9	21st ,,	69 2	16th ,,	96·4	71·8	84·1	+6·4	77·3
	South Bhagulpore, Monghyr	Bhagulpore	29·722	29·887	—·019	Westerly	107	97·2	21st ,,	67·0	16th ,,	94·0	70·4	82·2	+4·3	78 0
	Sonthal Pergunnahs	Doomka	29·411	29 913	+·013	Calm	75 1	98·2	20th & 21st March	68·4	16th ,,	96 3	72·3	84·3	+4·3	81·4
Chota Nagpore	Hazaribagh	Hazaribagh	27·923	29 943	+·023	Variable	207·5	94·1	18th ,,	65·2	22nd ,,	92·4	68·4	80·4	+3 8	77·1
	Lohardugga, Manbhoom	Ranchee	27·780	29·908	—·002	Calm	144·9	94·4	18th ,,	60·4	21st ,,	92·7	66·5	79·6	+2·9	78·5
	Singbhoom	Chyebassa	29·157	29·930	+·015	S & SE	30·0	101·5	18th ,,	66·3	16th ,,	98·6	71·6	85·1	+2·8	80·3

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 tations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

Station Bazars of the Districts of Bengal on the 15th March 1889—(concluded).

Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers — Salt			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	*Eastern Districts*—concluded.
...	...	...	...	...	...	108 0	108 0	110 0	R 9 0	9 8	7 0	4 0 0	4 0 0	4 10 0	Chittagong.
...	...	...	8 0	8 0	..	...	..	...	S 8 0	8 0	7 0	4 8 0	4 8 0	4 [illegible]0 0	Noakholly
...	...	...	9 0	9 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 8 0	Tipperah
..	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	6 6	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts
...	...	...	8 0	8 0	12 0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah
															BEHAR.
22 8	22 8	29 0	25 0	23 0	27 0	130 0	130 0	120 0	10 0	10 0	10 0	3 12 6	3 12 3	3 12 0	Patna.
...	...	...	19 0	19 0	18 8	200 0	200 0	160 0	8 12	8 12	9 8	4 2 9	4 2 9	4 4 0	Gya.
...	...	22 8	14 0	14 0	15 0	160 0	160 0	120 0	T 10 0	10 0	10 0	......	......	......	Shahabad
19 12	17 8	25 12	19 12	21 0	16 12	176 0	176 0	160 0	U 11 0	11 0	9 8	3 10 2	3 10 2	3 13 0	Durbhunga
19 0	18 0	27 0	20 0	20 0	22 0	160 0	160 0	160 0	V 10 0	10 0	9 8	3 12 0	3 12 0	4 2 0	Mozufferpore.
24 8	21 2	25 14	21 4	21 0	21 0	180 0	200 0	160 0	10 0	10 0	9 8	3 15 0	3 15 0	4 2 0	Sarun.
18 0	18 0	30 0	22 0	22 0	16 0	160 0	160 0	160 0	W 9 8	9 8	9 0	4 1 0	4 0 0	4 4 0	Chumparun
16 12	16 4	26 4	21 0	17 4	18 14	147 0	147 0	126 0	X 9 8	9 8	10 8	4 0 0	4 0 0	3 5 6	Monghyr.
17 10	16 6	26 8	16 6	17 10	17 10	151 0	176 8	161 0	10 1	10 1	10 1	3 11 0	......	3 12 0	Bhagulpore.
10 0	...	...	16 0	16 0	16 0	200 0	200 0	120 0	Y 9 4	9 0	8 8	4 5 0	4 5 0	4 13 3	Purneah.
...	...	...	...	...	...	120 0	120 0	120 0	9 8	10 0	9 0	4 0 0	......	4 4 0	Maldah
18 0	19 0	29 0	23 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	9 8	4 3 0	4 3 0	3 15 0	Sonthal Perghs.
															ORISSA.
...	...	...	15 12	18 6	18 6	80 0	80 0	80 0	12 0	12 0	10 0	3 3 0	3 3 0	3 11 0	Cuttack.
...	...	...	14 7	14 7	17 1	80 0	80 0	70 0	11 13	11 13	9 4	3 6 0	3 6 0	3 12 0	Pooree.
...	...	...	...	...	...	160 0	160 0	200 0	9 0	9 0	8 8	4 0 0	4 1 0	4 7 0	Balasore.
															CHOTA NAGPORE
															South-West Frontier Agency.
18 0	18 0	20 0	17 0	17 0	20 0	320 0	320 0	320 0	8 0	8 0	8 0	4 6 0	4 4 0	4 6 6	Hazaribagh.
17 8	17 0	...	16 0	16 0	18 0	140 0	140 0	140 0	Z 8 8	8 8	9 6½	4 8 0	4 8 0	4 4 0	Lohardugga.
...	...	...	15 0	15 0	19 0	200 0	200 0	240 0	8 0	8 0	8 0	......	......	......	Singbhoom.
32 0	26 0	30 0	14 0	17 0	22 0	200 0	200 0	200 0	Z1 9 0	9 0	9 2	4 2 6	4 2 6	4 4 0	Manbhoom.

W At Bettiah retail price of salt 9½ seers per rupee.
X In sub-divisions retail prices of salt per rupee are :—Beguserai 9¼ seers and Jamui 9 seers.
Y At Kishongunge retail price of salt 10 seers per rupee.
Z At Daltongunge retail price of salt 8 33 seers per rupee.
Z1 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R A P.	R. A P.	R A P	R A P	R A P	R. A P.	R. A. P.	R. A. P.	R. A. P	R. A. P.	R. A P.	R. A. P.
1	Calcutta ..	2 13 3	2 13 5	2 12 10	2 0 3	2 5 8	1 10 6	3 12 2	3 14 10	3 6 7	2 7 9	2 7 10	2 1 4
2	Serajgungo .	2 4 0	2 5 0	2 0 0	...	...	...	3 8 0	3 9 0	3 8 0	2 6 0	2 5 0	1 14 0
3	Dacca ..	2 8 0	2 8 0	2 12 0	1 8 0	1 8 0	1 0 0	2 8 0	2 10 0	1 15 0	2 5 0	2 5 0	1 9 0
4	Noraingunge		...	...	...	...	...	2 6 0	2 6 0	2 4 0	2 4 0	2 4 0	.
5	Chittagong	3 9 0	3 9 0	3 8 0	.		..	3 4 0	3 4 0	2 12 0	2 10 0	2 10 0	1 15 0
6	Patna ...	2 3 0	2 5 0	2 6 0	1 12 0	1 12 0	1 5 0	3 8 0	3 8 0	3 0 0	2 6 6	2 6 0	1 13 9
7	Balasore ..	3 0 0	3 0 0	2 4 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	2 12 0	1 13 0	1 11 0	1 8 0
8	Pooreo ...	..	...	...	...	..	.	...	...	...	2 2 6	2 2 6	1 8 0
9	Cuttack ..	3 0 0	3 0 0	2 10 0	..	...	...	3 4 0	3 4 0	3 10 0	2 0 0	2 0 0	1 11 0

CALCUTTA
The 26th March 1889.

undermentioned Marts of Bengal on the 15th March 1889.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 4 6	2 5 3	1 15 5	2 5 0	2 4 0	1 8 8	2 2 10	2 2 5	1 15 1	0 6 0	0 5 9	0 6 8	3 9 6	3 9 6	3 13 7	Calcutta.
2 9 0	2 10 0	2 4 0	...	...	...	...	...	...	...	...	...	3 13 0	3 13 0	3 14 0	Serajgunge.
3 0 0	3 0 0	2 8 0	...	...	...	2 8 0	2 8 0	3 0 0	0 5 0	0 5 0	0 5 3	3 14 0	3 14 0	4 4 0	Dacca.
[illegible] 0 0	3 0 0	2 8 0	.	..	...	3 2 0	3 2 0	3 [illegible] 0	0 8 0	0 10 0	0 10 0	3 12 0	3 12 0	5 0 0	Naraingunge.
[illegible] 8 0	3 8 0	4 8 0	...	...	...	...	...	..	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	4 10 0	Chittagong.
1 9 0	2 0 0	1 7 6	1 11 6	1 11 9	1 5 0	1 9 0	1 10 0	1 7 0	0 5 0	0 5 0	0 5 0	3 12 6	3 12 3	3 12 0	Patna.
2 14 0	2 14 0	2 14 0	...	.	.	.	...	...	0 4 6	0 4 6	0 4 0	4 0 0	4 1 0	4 7 0	Balasore.
...	..	...	.	..	.	..	..	...	...	...	...	3 6 0	3 6 0	3 12 0	Pooree.
1 11 0	1 11 0	1 11 0	...	...	...	2 5 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 3 0	3 3 0	3 14 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division	District	Representative station	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level	Variation from mean	Wind. Prevailing direction	Mean wind velocity	Temperature. Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree ..	29 933	29·945	—	SW	302	93·6	22nd March	75·1	22nd March	*87 8	*77·2	*82·5	—	80 0
		Gopalpore .	29·899	29 949	+·002	SW	473	83·2	21st ,,	77·8	16th & 17th March	84·8	78 8	81 8	+1 8	80·1
		False Point ..	29·931	29·953	+·011	SSW	305	87·4	22nd ,,	74·6	21st & 22nd March	86 5	75·7	81·1	+0·5	79 6
	Cuttack	Cuttack ..	29 864	29 945	+·018	Southerly	75	102·4	16th ,,	72·8	22nd ,,	98·0	76 0	87 5	+2·3	79 6
	Balasore .. .	Balasore ..	29 903	29·963	+·030	SSW	208 4	90·4	16th ,,	68·9	22nd ,,	92 6	73·8	83 2	+1 8	78 4
South-West Bengal	South-West Midnapore; South 24-Pergunnahs	Saugor Island	29 917	29 943	+·014	SSW	401	88 7	16th, 17th & 19th March	77 5	16th & 17th March	88 1	78 4	83 3	+1·7	80 6
	Midnapore	Midnapore ..	29 778	29·931	—·003	S	106 3	101·3	21st ,,	70 2	16th ,,	*97·8	*73 9	*85 8	+3·2	79 6
	24-Pergunnahs ...; Howrah ...; Hooghly ...	Calcutta ..	29 908	29 930	+·004	SW	110	94·5	20th & 21st March	71·2	22nd ,,	92·0	72·0	82 5	+1 9	77 9
	Burdwan	Burdwan ..	29·809	29·911	— 011	SW & S	80 0	100·2	20th & 21st March	70 7	16th ,,	97 2	73 8	85·5	+4 0	77 3
	Bankoora	Bankoora ..	29·600	29·905	—	Calm & westerly	105	101 1	21st ,,	67 6	16th ,,	99 1	73 6	86 4	--	79·4
	Beerbhoom ...; West Burdwan ...	Raneegunge .	29 581	29 894	—·014	WSW	70·4	100 5	21st ,,	69 4	16th ,,	98 7	74·1	86 5	+4 2	79 6
	Moorshedabad	Berhampore	29 849	29·917	0	Westerly	109·8	99 7	20th ,,	66·2	16th ,,	95 7	71·9	83 8	+3·8	76·9
	Nuddea	Krishnaghur	29 877	29 944	+·017	SE & SW	135·2	98 2	20th ,,	68 1	16th ,,	95 2	71 7	83 5	+3·0	78 0
	Jessore ...; Khoolna ..	Jessore ..	29·506	29·940	+·014	SE & SW	84 7	99 3	21st ,,	65 5	16th ,,	94 7	72 6	83 7	+2·6	78 6
East Bengal	Chittagong	Chittagong .	29·891	29 982	+ 014	SE	88·1	88 1	18th & 19th March	67·0	16th ,,	86 7	70 1	78 4	+0 8	75·6
	Chittagong Hill Tracts	Demagiri ..						Observations not received.								
	Bacl… ·unge	Barrisal ..	29·940	29 952	+·022	S	91·8	91·8	21st March	69·9	17th ,,	89 0	73·1	81 1	+2 0	78 1
	Noakholly	Noakholly ..	29 921	29 965	+ 025	Southerly	125 0	87 7	21st ,,	65 7	18th ,,	86 6	70 2	78·4	+0 9	79 4
	Furreedpore	Furreedpore	29 939	29 951	+·032	SW	135	86 5	21st ,,	69 4	17th ,,	86 1	71 9	79 0	+1 2	76 7
	Dacca	Dacca ..	29 924	29 947	+ 018	SW	124 8	99·1	21st ,,	70 2	17th ,,	93·5	72 4	83 0	+2 6	77·9
	Commillah	Commillah ...	*29·957	29 992	+·048	SE	55·7	92·3	20th ,,	67·8	17th ,,	91 1	72 2	81 6	+2 7	77 2
	Mymensingh	Mymensingh..	29·886	29 915	+·019	ESE	264 3	97 6	21st ,,	67 0	22nd ,,	92·8	71 0	81·9	+0·5	75·8
North Bengal	Bogra	Bogra ..	29 837	29 902	—·024	SE	133 6	98 3	21st ,,	67 8	16th & 22nd March	95 1	70 0	82 6	+4·3	75·9
	Pubna ...	Serajgunge ..	29 871	29 919	— 007	SSE	104 2	98 2	21st ,,	67 7	22nd ,,	94 2	70 3	82 3	+5 1	76 3
	Rajshahye	Rampore Beauleah.	29 846	29·917	+ 018	Southerly	136 7	97 3	21st ,,	68 7	16th & 22nd March	94 1	71·1	82 6	+4 3	77 7
	Maldah	Maldah ..	29 844	29·926	—	Westerly	92·1	97 1	21st ,,	61 8	16th ,,	95 3	65 1	80 2	—	79·7
	Dinagepore	Dinagepore ..	29·778	29 902	— 027	NE	121	94 1	2 th ,,	65·2	16th & 22nd March	92·6	67·3	80 0	+3 7	74·8
	Rungpore	Rungpore ..	29 792	29 920	+ 004	Easterly	110	92·6	20th ,,	66 5	20th & 22nd March	90·4	67·5	79·0	+3·9	74 2
	Julpigoree ...; Cooch Behar ...	Julpigoree ..	29·630	29 926	—·015	North-easterly	60 2	89 0	17th & 19th March	57·9	22nd ,,	87 4	62·5	75·0	+1·0	71 2
	Darjeeling Hill Tracts ...	Darjeeling ..	22·901	—	+·007	Calm	237 4	63·6	21st ,,	45 5	16th ,,	60 7	47·7	54·2	+3 4	53·1
North Behar	Purneah ...; North Bhagulpore ...	Purneah ...	29·768	29 898	—·012	NE	91·7	94 2	20th & 22nd March	64 5	20th ,,	92 9	67·7	80·4	+4 3	75·1
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga ...	29·733	29·904	—·007	SE	119	91·9	22nd March	68·9	20th ,,	89 4	70·8	80 1	+4·5	75·7
	Chumparun . ..	Motihari ..						Complete observation not at hand.								
	Sarun	Chupra ...	29·090	29 888	—·030	W	136·7	80·5	20th March	66·8	16th March	77 5	69·3	73 4	—4·6	77·1
South Behar	Shahabad	Dehree ..						Complete observation not at hand.								
		Buxar ..	29·672	29·919	—·003	WNW	151·2	98 4	20th & 21st March	68·3	16th ,,	96·5	71·2	83·9	+5·5	78·0
		Arrah ..	29·713	29·914	+·010	W	78·6	100·4	21st ,,	64·8	16th ,,	97·3	69·1	83 2	+5·0	76·6
	Gya	Gya ..	29·560	29·948	+·025	Variable	189·0	98·5	19th ,,	66·2	22nd ,,	*96·5	*68 4	*82·5	+2·5	76·5
	Patna	Bankipore ..	29·722	29·909	—·006	W	97·4	99 9	21st ,,	69 2	16th ,,	96·4	71·8	84·1	+6·4	77 3
	South Bhagulpore ...; Monghyr ...	Bhagulpore ...	29·722	29·887	—·019	Westerly	107	97·2	21st ,,	67·0	16th ,,	94·0	70·4	82·2	+4·3	78·0
	Sonthal Pergunnahs ...	Doomka ...	29·411	29 913	+·013	Calm	75·1	98·2	20th & 21st March	68·4	16th ,,	96 3	72·3	84·3	+4·3	81·4
Chota Nagpore	Hazaribagh	Hazaribagh ..	27·923	29·943	+·023	Variable	207·5	94·1	18th ,,	65·2	22nd ,,	92·4	68·4	80·4	+3·8	77·1
	Lohardugga ...; Manbhoom ...	Ranchee ...	27·780	29·908	—·002	Calm	144·9	94·4	18th ,,	60·4	21st ,,	92·7	66·5	79·6	+2·9	78·5
	Singbhoom	Chyebassa ...	29·157	29·930	+·015	S & SE	80·0	101·5	18th ,,	66·3	16th ,,	98·6	71·6	85·1	+2·8	80·3

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 tations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 22nd of March 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1888. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
84	3·4	Nil	Nil	0·19	0 02	0 55	−0 53	44·77	57 06	−12 29	0·0	0 5	Pooree ...	Pooree	Orissa.
81	1 3	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore		
89	7·0	Nil	—	—	—		—	—	—	—	—	—	False Point .		
77	5 9	0 03	0 03	0 25	0·03	0·87	−0 84	53·14	53 67	−0 53	0 6	0 5	Cuttack .	Cuttack	
79	2·4	0·16	0 41	0 35	0 46	0 84	−0 38	54·71	55 21	−0 50	1 0	0 5	Balasore .	Balasore	
83	7·1	Nil	0 06	0 18	0 06	0·72	−0 66	56 75	64·49	−7·74	0 7	0·4	Saugor Island ..	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
60	2 0	Nil	Nil	0 38	0 01	1·21	−1·20	65·27	53 78	+11 49	0 0	0 5	Midnapore ..	Midnapore	
83	5·9	0 02	0 03	0 31	0 40	1 01	−0 61	64 96	53 92	+11 04	0 4	0·6	Calcutta ...	24-Pergunnahs...; Howrah .; Hooghly ..	
73	5 9	Nil	Nil	0 20	0 30	0 84	−0 54	56 92	48 57	+8 35	0 0	0 5	Burdwan .	Burdwan	
62	4 3	Nil	Nil	0 25	0 62	0 76	−0 14	54 02	53 71	+0 31	0 0	0 6	Bankoora	Bankoora ...	
61	3 4	Drops	Nil	0 06	0 76	0 41	−0 35	59 68	52·99	+6 69	0 0	0 4	Raneegunge ..	Beerbhoom ... ..; West Burdwan . .	
81	1 9	0 02	Nil	0·10	0 26	0 50	−0 24	49 96	51 85	−1·89	0 0	0 4	Berhampore	Moorshedabad .. .	
79	6 4	0 01	0·01	0 27	0 82	1 00	−0 18	56 23	51 17	+5·06	0 2	0 5	Krishnaghur	Nuddea	
88	4 9	Nil	0 06	0 13	0 63	1 30	−0 67	45 75	55 65	−9 90	0 7	0 7	Jessore ..	Jessore ..; Khoolna	
84	3·7	0 43	0 50	0 48	0 60	1 33	−0 73	127 07	115 87	+11 20	1 0	0 9	Chittagong .	Chittagong . ..	East Bengal.
				0 20		1 71			81 25			0 8	Demagiri .	Chittagong Hill Tracts	
88	2 7	0 12	0 17	0 46	0 38	1 36	−0 98	74 00	79 46	−5 56	0 8	0 8	Burrisal ..	Backergunge ...	
84	4 7	1 62	1 94	0 62	2 88	2 40	+0 48	110 14	110 63	−0 49	1 5	1 0	Noakholly .	Noakholly .	
89	0 4	Nil	Nil	0·56	0 08	1 79	−1 71	48 50	59 07	−10 57	0 0	1 0	Furreedpore	Furreedpore ...	
87	5 3	0 02	Nil	0·51	0 05	1 80	−1 75	56 78	62 83	−6 05	0·0	0 8	Dacca .	Dacca	
85	2 5	0 02	0 25	1 20	0·25	2 72	−2 47	63 28	73 10	−9 82	0 3	1 3	Commillah ..	Tipperah . ..	
87	1 6	Nil	Nil	0 29	0 01	1 24	1 23	67 18	69 49	−2·01	0 0	0 9	Mymensingh	Mymensingh	
82	5 7	0 05	Nil	0 15	0 02	0 52	−0 50	46 47	58 54	−12 07	0 0	0 4	Bogra .	Bogra	North Bengal.
89	6 4	Nil	Nil	0 20	0 02	0 94	−0 92	42·49	55 40	12 91	0 0	0 4	Serajgunge .	Pubna	
77	1 4	Nil	Nil	0 06	0 03	0 46	−0 43	47 94	55 18	−7 24	0 0	0 3	Rampore Beauleah	Rajshahye . ..	
47	0	Nil	Nil	0 10	0 02	0·36	−0 34	43 85	55 18	−11 33	0 0	0·4	Maldah	Maldah .	
74	1 1	Nil	0 01	0 08	0 02	0 32	−0 30	49·52	58 20	−8 68	0 2	0 3	Dinagepore .	Dinagepore ...	
76	2 6	0 31	0 17	0 27	0 17	0·80	−0 63	59 40	75·07	−15 67	0 8	0 4	Rungpore ..	Rungpore .	
82	0·9	0 05	0 39	0 38	0 39	0 87	−0 48	90 34	112·41	−22 07	1 6	0 5	Julpigoree ..	Julpigoree ..; Cooch Behar .	
84	4 1	0 12	2 11	0 16	2 60	0·93	+1 67	105 14	122 92	−17 78	2 3	0 5	Darjeeling	Darjeeling Hill Tracts	
73	1 0	Nil	Nil	0 06	Nil	0·30	−0 30	51 29	59 46	−8 17	0 0	0 3	Purneah .	Purneah; North Bhagulpore	North Behar.
			Nil	0 07	0 10	0·35	−0·25	43 97	44 31	−0 34	0 0	0 3	Mozufferpore	Mozufferpore ...	
64	0 7	Nil	Nil	0 04	0 06	0 27	−0 21	43 20	45 39	−2 19	0 0	0 2	Durbhunga .	Durbhunga ...	
			Nil	0 05	0 09	0 33	−0 24	44 81	47 52	−2 71	0 0	0 2	Motihari	Chumparun	
67	0	Nil	Nil	0 04	0 30	0·15	+0 15	41 68	43·54	−1 86	0 0	0·2	Chupra	Sarun ...	
													Dehree ..		South Behar.
49	2·4	Nil	Nil	0 06	0 67	0·35	+0 32	44 42	40 77	+3 65	0 0	0·2	Buxar ..	Shahabad .. .	
59	1·0	Nil											Arrah		
52	2 1	Nil	Nil	0 09	0 42	0 31	+0 11	52 87	42 39	+10 48	0 0	0 5	Gya	Gya	
55	0 7	Nil	Nil	0·08	0 17	0·24	−0 07	51 21	41 98	+9 23	0 0	0 3	Bankipore .	Patna ..	
58	1·9	Nil	Nil	0·06	0 08	0 24	0·16	52 58	43 98	+8 40	0 0	0 2	Bhagulpore ..	South Bhagulpore ...; Monghyr ..	
53	0	Nil	Nil	0 11	0·16	0·44	−0 28	55·38	51 71	+3 67	0 0	0 3	Doomka	Sonthal Pergunnahs	
40	4·1	0 33	0·20	0 08	0 57	0 78	−0 21	58 79	51 81	+6 98	1 0	0·3	Hazaribagh ..	Hazaribagh	Chota Nagpore.
62	1·1	0 21	0·35	0 12	0 53	0 68	−0 15	52 30	50 43	+1 87	1·3	0·4	Ranchi ...	Lohardugga .	
			Nil	0 18	0 33	0 63	−0·30	48 14	48 53	−0 39	0 0	0·5		Manbhoom . .	
49	3·0	Drops	Nil	0·25	0 32	0 92	−0 60	41 30	53 31	−12 01	0 0	0 6	Chyebassa ...	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of March 1889.

Meteorological division.	District.	Station.	Saturday, 16th March 1889.	Sunday, 17th March.	Monday, 18th March.	Tuesday, 19th March.	Wednesday, 20th March.	Thursday, 21st March.	Friday, 22nd March 1889.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA	Pooree	Pooree								Nil	Nil	Nil	0.37	41.24	52.50
		Khurdah								Nil	Nil	0.07	0.50	44.55	57.70
		Banpur								Nil	Nil	Nil	0.50	37.00	52.00
		False Point								Nil	Nil	Nil	0.72	56.28	66.32
		Gop								Nil	Nil	Nil	?	?	?
		Pipli								Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingpore								Nil	Nil	Nil	0.66	58.64	48.32
		Banki							0.02	1	0.02	0.02	1.07	45.05	52.49
		Cuttack							0.01	1	0.01	0.01	1.07		78.12
		Kendrapara						0.10		1	0.10	0.10	0.63	40.60	51.76
		Jajpore					0.25			1	0.25	0.25	0.89	62.40	56.16
		Dharmsala								Nil	Nil	Nil	?	57.73	?
		Salipore												?	?
	Balasore	Chandbali								Nil	Nil	0.30	0.86	53.15	64.12
		Bhuddruck				1.40		0.21		2	1.61	1.61	0.78	51.00	5[illegible].79
		Sorah				0.53		0.14		2	0.67	0.67	1.13	51.89	53.01
		Balasore											0.92	[illegible]	60.04
		Jellasore								Nil	Nil	0.08	0.73	56.99	54.59
		Baripodah						0.09		1	0.09	0.09	0.61	56.15	55.09
SOUTH-WEST BENGAL.	Midnapore	Contai						0.16		1	0.16	0.16	0.55	52.64	63.12
		Saugor Island								Nil	Nil	Nil	0.60	53.60	68.86
		Tumlook								Nil	Nil	Nil	1.39	67.20	53.81
		Midnapore								Nil	Nil	Nil	1.18	70.22	50.96
		Ghattal								Nil	Nil	0.03	1.06	58.39	56.50
		Kukrahaty								Nil	Nil	Nil	?	67.51	?
		Heria						0.15		1	0.15	0.15	?	5[illegible].96	?
		Bhagwanpore						0.15		1	0.15	0.15	?	56.18	?
		Garbeta								Nil	Nil	Nil	?	65.89	?
	24-Pergunnahs	Diamond Harbour						0.03		1	0.03	0.03	1.02	59.00	61.23
		Canning Town								Nil	Nil	Nil	?	57.36	?
		Alipore Jail								Nil	Nil	0.27	1.27	65.09	58.31
		Barrackpore						0.02		1	0.02	0.31	1.16	63.49	50.64
		Dum-Dum								Nil	Nil	0.97	1.10	67.[illegible]3	53.94
		Baraset								Nil	Nil	0.56	1.00	67.84	51.54
		Busserhat								Nil		0.29	1.50	53.33	56.78
	Howrah	Howrah						0.03			0.03	0.[illegible]7	1.07	68.92	54.26
		Mohesreka (*Oolooberiah.*)						0.21		1	0.24	0.24	0.76	62.97	51.19
	Hooghly	Serampore						0.03		1	0.03	0.52	0.75	68.92	52.08
		Hooghly								Nil	Nil	0.25	0.87	68.11	50.22
		Jehanabad								Nil	Nil	0.17	0.77	63.55	57.08
	Burdwan	Culna								Nil	Nil	0.[illegible]1	0.93	61.68	46.19
		Burdwan								Nil	Nil	0.16	0.95	47.[illegible]7	49.61
		Cutwa								Nil	Nil	0.13	0.62	61.71	49.56
		Raneegunge								Nil	Nil	0.18	0.48	59.32	50.15
		Mankur								Nil	Nil	0.19	?	41.80	?
	Bankoora	Bankoora								Nil	Nil	0.[illegible]7	1.11	50.06	53.29
		Bishenpore								Nil	Nil	1.[illegible]8	0.85	57.33	58.04
		Maharra								Nil	Nil	0.24	0.15	51.95	52.91
		Khatra								Nil	Nil	Nil	0.62	56.69	55.32
		Indas								Nil	Nil	0.[illegible]7	?	42.21	?
		Kotalpore								Nil	Nil	0.62	?	50.18	?
		Anda								Nil	Nil	0.50	?	39.51	?
		Gangajalghati								Nil	Nil	0.23	?	58.26	?
		Raipore								Nil	Nil	0.15	?	56.35	?
		Sonamukhi						0.04		1	0.04	1.12	?	47.92	?
	Beerbhoom	Bh. Soory								Nil	Nil	0.53	0.51	56.07	55.12
		Hetampore								Nil	Nil	0.41	0.18	49.82	55.42
		Rampore Haut								Nil	Nil	1.59	0.15	73.47	52.72
		Bolpore								Nil	Nil	0.19	?	61.22	?
		Muraroi								Nil	Nil		?		?
	Nuddea	Ranaghat						0.03		1	0.03	0.40	0.9[illegible]	65.15	48.80
		Kishnaghur						0.01		1	0.01	0.44	0.78	70.47	47.5[illegible]
		Choondanga								Nil	Nil	0.95	0.91	51.92	53.07
		Meherpore								Nil	Nil	2.21	1.13	53.13	49.66
		Kooshtea								Nil	Nil	Nil	1.21	37.36	56.71
	Khoolna	Satkhira						0.06		1	0.06	1.55	1.31	41.58	57.29
		Baghirhat								Nil	Nil	0.57	1.07	52.01	6[illegible]
		Khoolna						0.06		1	0.06	0.50	1.36	49.70	57.30
	Jessore	Narail						0.03		1	0.03	0.39	1.31	32.31	48.61
		Jessore							0.11	1	0.11	0.84	1.51	58.14	56.23
		Jhenidah								Nil	Nil	0.15	1.14	37.09	55.92
		Magoorah						0.08		1	0.08	0.19	1.38	44.[illegible]	50.77
		Bongong						0.12		1	0.12	0.57	1.04	50.92	53.91
	Moorshedabad	Kandi								Nil	Nil	0.84	0.10	53.10	51.37
		Berhampore						0.02		1	0.02	0.29	0.60	45.02	53.00
		Lalbagh								Nil	Nil	0.19	0.48	49.11	52.05
		Azimgunge											0.51		52.42
		Jungipore								Nil	Nil	0.16	0.41	49.51	50.22
		Lalgola								Nil	Nil	0.06	0.18	51.29	52.34
		Jiagunge								Nil	Nil	0.14	?	49.40	?
		Mirzagunj								Nil	Nil	Nil	?	50.08	?
		Patkabari										Nil	?	44.21	?
EAST BENGAL	Chittagong	Cox's Bazar						0.56		1	0.56	0.56	1.31	147.50	135.[illegible]8
		Chittagong						0.42		1	0.42	0.52	1.34	10[illegible].50	96.26
		Kutubdia								Nil	Nil	Nil	?	117.52	?
		Satkanya						0.29		1	0.29	0.[illegible]5		92.32	?
	Chittagong Hill Tracts.	Rangamati						0.10		1	0.10	0.22	1.90	76.61	80.70
		Bunna								Nil	Nil	0.58	1.55	71.57	80.78
	Backergunge	Patuakhally					0.35			1	0.35	0.35	0.85	88.62	80.53
		Perozepore						0.27		1	0.27	0.27	1.14	62.58	72.53
		Burrisal						0.05		1	0.05	0.78	1.88	68.22	70.84
		Bhola								Nil	Nil	0.43	1.56	76.40	8[illegible].90

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of March 1889—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 16th March.	Sunday, 17th March.	Monday, 18th March.	Tuesday, 19th March.	Wednesday, 20th March.	Thursday, 21st March.	Friday, 22nd March.	Total: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
East Bengal—concld.		*Gournaddi*								Nil	Nil	1 00	?	51 83	?
		Bauphal						0 24		1	0 24	0 26	?	99 77	?
	Noakholly	Noakholly						1 47		1	1 47	2 60	2 40	111 14	111 11
		Feni						0 80	1 60	2	2 40	3 15	2 40	10? 13	110 16
		Hariskpore						0 15		1	0 15	0 55	?	13? 21	?
		Ramganj						0 50		1	0 50	0 67	?	90 61	?
	Furreedpore	Madaripore						0·10		1	0 10	0 26	1·87	170?	58 70
		Furreedpore								Nil	Nil	Nil	2 08	53 33	59 73
		Goalundo								Nil	Nil	0 08	1 41	45 25	55·54
	Dacca	Munshigunge								Nil	Nil	0 04	2 93	61 72	74 40
		Dacca								Nil	Nil	0 11	1 86	6? 80	61 37
		Narainganj								Nil	Nil	0 03	1 60	63 96	62 59
		Manickganj								Nil	Nil	Nil	0 83	4? 63	52 00
		Joydebpore								Nil	Nil	0 01	?	59 50	?
	Hill Tipperah	Agartola								Nil	Nil	Nil	2 81	64 42	65 49
	Tipperah	Comilla								Nil	Nil	Nil	2 ?6	70 17	79 45
		Chandpore						0 60		1	0 60	0 90	2 ?6	59 17	81 16
		Brahmanbaria								Nil	Nil	0 66	3 45	70 19	65 7?
		Ramchandrapore								Nil	Nil	Nil	?	60 81	?
		Nasirnagar							0 30	1	0 30	0 30	?	59 29	?
		Daudkandi						0 05		1	0 05	0 05	?	61 23	?
		Kasba		0 05						1	0 05	0 11	?	57 01	?
		Laksam						1 10		1	1 10	1 10	?	81 11	?
	Mymensingh	Kishoreganj								Nil	Nil	Nil	1 71	83 53	72 68
		Atia (*Tangail*)								Nil	Nil	Nil	1 01	?9 1?	57 61
		Mymensingh								Nil	Nil	0 05	1 ?4	70 07	76 13
		Jamalpore								Nil	Nil	Nil	0 72	6? ?8	67 01
		Netrokona								Nil	Nil	Nil	1 16	77 ?9	75 74
		[illegible]nakhali								Nil	Nil	0 03	?	62 17	?
		Durgapore								Nil	Nil	Nil	?	110 01	?
		Sherpore town								Nil	Nil	Nil	?	[illegible]	?
		Dewanganj								Nil	Nil	Nil	?	5? 76	?
North Bengal	Pubna	Pubna								Nil	Nil	0 04	1 1?	40 87	56 07
		Serajganj								Nil	Nil	Nil	0 ?2	41 0?	51 69
	Bogra	Sherpore								Nil	Nil	0 03	0 6?	1? 73	59 34
		Nowkhila								Nil	Nil	0 05	0 ?1	51 87	5? ?6
		Bogra								Nil	Nil	Nil	0 10	43 ?1	6? 8?
		Panchbibi								Nil	Nil	Nil	0 50	?6 99	56 7?
	Rajshahye	Beauleah								Nil	Nil	0·06	0 43	3? 92	64 12
		Nattore								Nil	Nil	Nil	0 4?	61 98	56 29
		Naogaon								Nil	Nil	Nil	?	59 6?	?
		Lalpore								Nil	Nil	Nil	?	40 0?	?
		Manda								Nil	Nil	Nil	?	82 84	?
	Maldah	Maldah								Nil	Nil	Nil	0 18	51 85	52 72
		Chanchal								Nil	Nil	0 03	0 23	55 79	57 57
		Gajol								Nil	Nil	Nil	?	10 7?	?
		Sibganj		0 02						1	0 02	0 07	?	48 78	?
	Dinagepore	Mohadebpore								Nil	Nil	0 04	0 ?1	41 24	69 21
		Churamon								Nil	Nil	Nil	0 22	50 79	53 77
		Pirgunge	0 02							1	0 02	0 02	0 32	5? ?6	60 1?
		Dinagepore								Nil	Nil	Nil	0 ?5	5? 7?	65 05
		Balorghat								Nil	Nil	Nil	0 29	42 1?	5? 96
		Thakoorgaon	0 20							1	0 20	0 20		?? 22	?
	Rungpore	Bhowaniganj (*Gyabanda*)								Nil	Nil	Nil	0 80	48 ?5	63 02
		Rungpore		0 40						1	0 40	0 40	0 8?	5? 70	?? 85
		Kurigram				0 25				1	0 25	0 ?5	0 97	?6 76	74 8?
		Bago[illegible] (*Nilphamari*)		0 02						1	0 02	0 02	0 ?8	?0 1?	86 0?
		Ulipore				0 65				1	0 ?5	0 6?	?	57 ??	
	Julpigoree	Julpigoree								Nil	Nil	Nil	0 99	107 10	118 97
		Alipore Duar			1 ?0	1 52	0 1?			3	3 ?1	3 11	?	?? ?	?
		[illegible]			0 3?		0 12			2	0 4?	0 4?	?	61 ??	
		[illegible]								Nil	Nil	Nil		?	?
		Bhoodpore (Nagrakatta)		0 ?2	0·73	0 71	0 1?			4	2 ?1	2 ?1			
	Cooch Behar	Dinhatta	0·16	0 ??	0 17					3	? ??	0 ??	0 95	97 61	9? ??
		Cooch Behar				0·15				1	0 15	0 15	0 96	91 ?8	115 77
		Mekliganje			0 12					1	0 ?2	0 1?	0 ??	79 0?	10? 04
		Mathabhanga		0 35	0 71	0 05				3	1 11	1 11	0 93	7? ?2	118 06
	Darjeeling Hill	Buxa	2 90		0 3?	2 27	0 ?5			4	6 00	6 15	1 44	11? 44	19? 11
		Siliguri		1·81	0 24					2	2 08	2 08	0 ?1	?6 71	1?? 66
		[illegible]					0 0?			1	0 0?	0 ??	0 ??	?? 08	110 18
		Kalimpong			0 ?3	0 03				2	0 25	1 ??	0 51	7? 30	5? 69
North Behar	Purneah	Kissengunge								Nil	Nil	Nil	0 ?3	1? ?6	71 ?8
		Araria								Nil	Nil	Nil	0 11	5? ?7	?? ??
		Purneah								Nil	Nil	0 01	0 21	40 ??	6? 18
		Gondwara								Nil	Nil	Nil	?	?	?
		Balarampore								Nil	Nil	Nil	?		?
		[illegible]								Nil	Nil	Nil		59 0?	
		[illegible]ganj								Nil	Nil	Nil	?·?6	61 ??	50 ?1
	North Bhagulpore	Madhipore								Nil	Nil	Nil	0 26	4? ??	48 ?8
		Soopaul								Nil	Nil	Nil		41 11	?
		Pratabganj								Nil	Nil	Nil			
	Durbhunga	Tajpore								Nil	Nil	0 ?7	0 1?	16 10	?? ??
		Durbhunga								Nil	Nil	0 10	0 2?	?? 21	?? ??
		Madhubani								Nil	Nil	Nil	0 ??	41 ?2	?5 ??
		Nahera								Nil	Nil	0 0?		?? ?1	
		Rosera								Nil	Nil	Nil	?	1? 0?	
	Mozufferpore	Sitamarhi								Nil	Nil	0 03	0 ?1	?6 71	44 0?
		Mozufferpore								Nil	Nil	0 15	0 ?8	1? 10	46 44
		Hajipore								Nil	Nil	0 10	0 ?2	49 42	42 ?2
		Paru								Nil	Nil	Nil	?	40 0?	
		Manna								Nil	Nil	0 10	?	40·2?	?
		[illegible]								Nil	Nil	Nil	?	1?2 ?1	
		Pupri								Nil	Nil	Nil	?	25 5?	
	Chumparun	Motihari								Nil	Nil	0 04	0 33	10·03	15 ??
		Bettiah								Nil	Nil	0 1?	0 31	39 51	4? ??
		Bagaha								Nil	Nil	0 09	-	56 22	
		Burharwa								Nil	Nil	0 10	?	43 17	

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 22nd of March 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday 16th March 1889.	Sunday, 17th March.	Monday, 18th March.	Tuesday, 19th March.	Wednesday, 20th March.	Thursday, 21st March.	Friday, 22nd March.	TOTAL. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR —concluded.	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	0 30	0·05	41 34	44·55
		Sewan	...	...	...	...	...	...	...	Nil	Nil	0 25	0 14	44 14	44·61
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	0·34	0 27	39 25	41·42
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	0 04	0 22	43 33	39 13
		Dehree	...	...	...	...	...	...	...	Nil	Nil	1 15	0·53	46 13	39·74
		Bhaboosh	...	...	...	...	...	...	...	Nil	Nil	0 75	0 54	42 22	42 46
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	1 22	0 2?	44 11	41 37
		Arrah	...	...	...	...	...	...	...	Nil	Nil	0 18	0 26	46 34	41 01
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·78	?
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0 27	0 31	55·14	43·56
		Gya	...	...	...	...	...	...	...	Nil	Nil	0 80	0 26	56 01	43 42
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	0 35	0 35	51 18	40 91
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	0 25	0·29	49 12	41·42
		Arwal	...	...	...	...	...	...	...	Nil	Nil	0 ?3	?	40 68	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43 15	?
		Sherrghatti	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28 58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	0 20	?	38 91	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	0·25	0 23	43·51	42·61
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	0 30	0·17	45 21	42 05
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0 27	56 52	42·80
		Barrh	...	...	...	...	...	...	...	Nil	Nil	0 20	0 25	59 61	40 47
		Bickram	...	...	...	...	...	...	...	Nil	Nil	0 16	?	41 05	?
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	0 28	?	50 16	?
	Monghyr	Begooserai	...	...	...	...	...	...	...	Nil	Nil	0 15	0 16	51·73	40 80
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	0 10	0 21	56 93	47 24
		Jamui	...	...	...	...	...	...	...	Nil	Nil	0 17	0 32	52 50	44 04
		Gogri	...	...	...	...	...	...	...	Nil	Nil	0 09	?	64 76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60 73	?
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0 22	56 73	42 90
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0 28	44 01	45 56
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53 84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0 26	48 72	52·50
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0 32	52 17	46·03
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0 04	0 57	65 17	55 99
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	0 19	0 58	54 62	54 52
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	0 17	0 51	54 00	51 27
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	0 55	0 60	57 59	49 19
		Mohagama	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Nanihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29 74	?
CHUTIA NAGPUR	Hazaribagh	Pachamba (*Giridi*).	...	...	...	...	...	...	...	Nil	Nil	0 38	0·63	58·51	48·76
		Hazaribagh	...	...	...	...	...	0 26	0 07	2	0 33	0 98	0 59	56 86	40·34
		Sontagurkh	...	...	...	...	...	0 06	...	1	0 06	0 41	1 09	56 78	47 58
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0 75	55 81	49 76
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0 86	64 90	63 64
		Barhi	...	...	...	...	...	...	...	Nil	Nil	0 24	?	51 49	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	0 26	?	58 22	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	0 12	?	54 60	?
		Ramghar											?		?
	Lohardugga	Lohardugga	...	...	...	...	...	...	0 70	1	0 70	0 70	0 55	49·34	53 48
		Ranchi	...	...	...	...	...	0 15	0 05	2	0 20	0 30	0 95	53 94	54 20
		Palamow	...	...	...	...	...	0 07	...	1	0 07	0 55	0 53	53 60	44 30
		Silli	...	...	...	...	...	...	...	Nil	Nil	0 10	?	?	?
		Balumat								Nil	Nil	0 81	?	?	?
		Hosseinabad	...	...	...	...	0 10	0 05	...	2	0 15	0 65	?	48·08	?
		Garwah	...		...	...									
	Singhbhoom	Chyebassa	...	...		...	...		...	Nil	Nil	0 32	0 92	41 30	53·46
		Chakradharpore.	...	...					...	Nil	Nil	Nil	?	55 67	?
		Gaatsilla					...	...		Nil	Nil	Nil	?	55 19	?
		Banaragura											?		?
	Manbhoom	Purulia			...	...			...	Nil	Nil	0 19	0·84	58 25	50·82
		Gobindpore	...		...	...	...		...	Nil	Nil	0 47	0 42	38 00	46 36
		Raghunathpore.	...	...			...		...	Nil	Nil	0 40	?	55 83	?
		Barrabhoom	...	...		...			...	Nil	Nil	0 43	?	51 72	?
		Jhalda													
		Chas													

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 26th March* 1889

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 22ND MARCH 1889.

THE previous week ended with pressure and temperature everywhere in excess, the pressure excess amounting to nearly a tenth of an inch, and strong south-westerly winds were blowing at the head of the Bay. Pressure has fallen throughout almost the whole week—at first slowly, but afterwards more rapidly. In the early part of the week the shallow low-pressure area over Central India extended into the western districts of Bengal, but affected the weather only to the extent of giving the wind directions a cyclonic appearance and causing unsettled weather in North Bengal. During these days storms were frequent in the extreme north of Bengal, but were almost entirely absent from the other districts. Considerable quantities of rain fell at a few stations in the neighbourhood of the hills, the fall amounting in some cases to more than an inch and-a-half. In Julpigoree, Cooch Behar, and the Darjeeling Hill districts, these storms continued from the beginning of the week till Tuesday, the 19th, and a few light showers fell on Wednesday. Light cloud was general over the province on Sunday, but, with the exception of irregular changes of pressure, conditions did not become generally disturbed till Tuesday. Pressure began to fall more rapidly, and a depression formed to the north-west of the province; the south-west current was deflected more towards the west, and local storms, ceasing in North Bengal, began in other districts, more especially in a belt running along the west and south of the province. On Wednesday a brisk fall occurred, and the depression became more distinct. Temperature was high everywhere, and the changes very irregular, generally giving slight increase except at places where storms occurred. On the evening of Wednesday, the 20th, storms began in Chutia Nagpur. During the twenty-four hours following, storms were reported from stations along the western portion of South-West Bengal, South Bengal, and Chittagong. A fairly severe storm occurred about 7-30 P.M. on Wednesday at Hazaribagh, and at 10-30 P.M of the same day a storm was reported at Raneegunge. A storm passed to the west of Calcutta on the following morning at 8 o'clock, and passed over Saugor Island between ten and eleven, when a strong westerly gale of wind was reported. It is possible that this was a single storm moving in a south-easterly direction, in which case its rate of movement would be about sixteen miles an hour. Noakholly and Chittagong reported storms also on the 28th instant Very little rain fell during the passage of these storms, the amount being largest at Noakhally, where 1·5 inches fell. On Friday, in consequence of the filling up of the depression, conditions became more settled.

Pressure.—There has been a steady fall of pressure going on through the whole week—slow at first, but getting rapid towards the end of the week—and resulting in a distinct depression over Bengal on Wednesday and Thursday. On Sunday, the 17th, the lowest pressure was in South-West Bengal, the low-pressure area then over Central India extending over part of the province. The fall becoming most rapid in the north, a small depression formed in North Behar on Tuesday. The low-pressure area was transferred to North Bengal on Wednesday and Thursday, when the most rapid falls of the week took place, amounting in some cases to about a tenth of an inch. The depression was filling up on Friday. At the beginning of the week the mean for the whole province was considerably in excess, about ·06 inch. In consequence of the continued fall the pressure was nearly normal by the middle of the week, and then the defect from the daily mean increased till the end of the week. At the different stations the variation from the mean for the week shows considerable irregularity, but is generally in excess, the largest being in East Bengal and Orissa. In Behar and North Bengal pressure was very nearly normal.

Temperature.—Temperature has generally been increasing, but the changes have been very irregular at the different stations. The increase has been greatest in the northern districts, and the mean temperature for the week for Behar and North Bengal shows a large excess. In North Behar the excess is 4·4°, in South Behar 4·7°, and in North Bengal very nearly 4°; in South-West Bengal and Chutia Nagpur about 3°. In consequence of the passage of storms, the temperature has frequently fallen considerably over small areas. There were several cases of a fall of 7° in South-West Bengal on Friday. The changes were small in the early part of the week, and have been very irregular throughout.

The variations of the average temperature during the week from the normal can be seen from the following table, where the average maximum, minimum, and mean temperatures at

nine typical stations in different districts of the province are given compared with the normal means for the same period :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 22nd *March* 1889.

	Normal mean maximum temperature for the week ending 22nd March.	Actual mean maximum temperature for the week ending 22nd March.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 22nd March.	Actual mean minimum temperature for the week ending 22nd March.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 22nd March.	Actual mean daily temperature for the week ending 22nd March.	Variation of actual mean from the normal.
Cuttack	96·6	98·9	+2·3	73·8	76·0	+2·2	85·2	87·5	+2·3
Calcutta	90·6	92·0	+1·4	70·6	72·9	+2·3	80·6	82·5	+1·9
Dacca	90·6	93·5	+2·9	69·1	72·4	+3·3	80·4	83·0	+2·6
Burdwan	93·5	97·2	+3·7	69·4	73·8?	+4·4?	81·5	85·5?	+4·0?
Patna	92·4	96·4	+4·0	63·0	71·8	+8·8	77·7	84·1	+6·4
Gya	94·6	96·5	+1·9	65·4	68·4	+3·0	80·0	82·5	+2·5
Purneah	92·2	92·9	+0·7	60·0	67·7	+7·7	76·1	80·4	+4·3
Hazaribagh	89·1	92·4	+3·3	64·0	68·4	+4·4	76·6	80·4	+3·8
Darjeeling	57·7	60·7	+3·0	44·0	47·7	+3·7	50·8	54·2	+3·4

Rainfall.—Rain for the week has been everywhere in defect. Though a few places have received considerable quantities, the average fall has not been large. In the first part of the week local storms with rain were common in North Bengal, and during the latter part thunderstorms were fairly general over the whole province, except Behar. The average fall for East Bengal has been ·25 inch, for Orissa, North Bengal, and Chutia Nagpur between one and two-tenths of an inch; that of South-West Bengal only ·03 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 22nd of March 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
			Averages for week.				Of week			Rainy days.			Since 1st of month.		Since 15th May 1888.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa ..	102·4	68·9	90·0	76·3	83·2	+1·5	0·18	0·37	—0·19	0·6	0·6	0	0·20	0·78	51·88	55·10
South-West Bengal .	101·3	65·5	95·4	73·7	84·6	+3·1	0·02	0·26	—0·24	0·3	0·5	—0·2	0·46	0·90	57·08	53·94
East Bengal ...	99·1	65·7	89·4	71·6	80·5	+2·4	0·25	0·58	—0·33	0·5	0·8	—0·3	0·41	1·78	72·27	77·10
North Bengal ...	98·3	57·9	92·7	67·7	80·2	+3·7	0·11	0·20	—0·09	0·5	0·5	0	0·12	0·62	56·66	71·63
North Behar .	94·2*	64·5*	91·2*	69·3*	80·3*	+4·4	Nil	0·05	—0·05	0·0	0·3	—0·3	0·19	0·28	45·70	49·50
South Behar ..	100·4	64·8	96·2	70·5	83·4	+4·7	Nil	0·08	—0·08	0·0	0·3	—0·3	0·30	0·32	51·71	44·62
Chutia Nagpur .	94·0†	60·4†	92·6†	67·5†	80·0†	+3·4†	0·13	0·13	0	0·6	0·4	+0·2	0·45	0·74	52·10	50·97

* Chupra not included.
† Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 26*th March* 1889.

C. LITTLE,
For Offg Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 17th to 23rd March 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
March	17th	144·8	6·8	29·920	80·7	90 5	18·5	72·0	75·4	0·812	73·0	79	S and SSW ...	90	Nil	Chiefly cloudy,
,,	18th	145·4	7·8	·914	81·3	90·6	18·4	72·2	76·2	·832	73·7	79	SW and SSW ...	87	,,	Partially cloudy,
,,	19th	145·0	7·5	·898	82·7	94·4	21·2	73 2	77·4	·871	75 0	79	SSW, W and SW ...	92	,,	Chiefly cloudy
,,	20th	148·9	7·3	·831	83·8	94·3	18 9	75·4	78·2	·893	75 8	78	SW and SSW ...	151	,,	Chiefly cloudy
,,	21st	141·5	3·0	·779	80·8	90 8	19·4	71·4	72 7	·701	68·6	68	WSW ..	122	0 02	Chiefly cloudy, o, g, t, d, <
,,	22nd	146·6	9·1	·764	81 9	94·0	22 8	71·2	73 7	·718	69 4	69	WSW and SSW ...	139	Nil	Chiefly clear,
,,	23rd	149·4	9·7	·850	82·7	94 7	23·5	71·2	73 9	·717	69·3	63	SW by W and variable.	72	,,	Chiefly clear

	Inches.
The mean pressure of the seven days	29·851
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·812
	Hours.
The total number of hours of bright sunshine	51·2
The maximum possible number of hours of sunshine	84·4
	°
The mean temperature of the seven days	82·0
The average temperature of the corresponding period for 24 years, S. G.'s Office	81·5
The extreme variation of temperature	23 5
The maximum temperature	94 7
	Miles.
The highest velocity of the wind in one hour	15
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	2
	%
The mean relative humidity	74
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	63
	Inches
The total fall of rain from 17th to 23rd March 1889	0·02
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·20
The total fall from 1st January to 23rd March 1889	2 92
The average fall of the corresponding period for 24 years, S. G.'s Office ...	2·57

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t thunder, d drizzling rain, < lightning, dew.

C. LITTLE,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 25th March 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 17th to 23rd March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
March ...	17th ...	30·018	82·5	92·2	19·4	72·8	83·6	77·0	·840	74·6	73	Nil.
" ...	18th ...	29·998	83·0	93·0	20·0	73·0	84·8	79·3	·928	77·0	77	"
" ..	19th ...	·969	84·7	95·5	21·7	73·8	86·8	79·7	·920	76·7	72	"
" ...	20th ...	·901	85·6	95·8	20·5	75·3	88·0	79·5	·894	75·8	68	"
" ...	21st ...	·917	80·7	91·6	21·9	69·7	72·6	67·2	·595	63·9	74	0·04
" ...	22nd ...	·834	84·0	95·0	24·0	71·0	86·4	74·5	·694	68·3	55	Nil.
" ...	23rd ...	·923	84·5	96·1	23·3	72·8	86·6	76·5	·778	71·7	62	"

The mean 10 A.M. pressure of the seven days	...	...	...	Inches. 29·937
The mean temperature of the seven days	...	...	...	° 83·4
The extreme variation of temperature	...	...	...	26·4
The maximum temperature	...	...	...	96·1
The mean 10 A.M. relative humidity of the seven days	...	...	...	% 69
The total fall of rain from 17th to 23rd March 1889	...	...	...	Inches. 0·04

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 25th March 1889.

C. LITTLE,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

For the week ending 9th March 1889, the returns of the principal Municipalities in Bengal disclose the following results:—

1. During the week in question births and deaths were registered in the proportions, respectively, of 24· and 21·8 per 1,000 of population as opposed to 22·6 and 22·7 per 1,000, respectively, during the preceding week ending 2nd March, indicating an improvement in the registration of births with a retrogression in that of deaths.

2. The highest proportions of births and deaths were returned from the following Municipalities:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Naraingunj	68 0	Serampore	35·3
Comillah	57 8	Purneah	34 6
Serampore	51 0	Burdwan	33·6
Rampore Beauleah	49·9	Suburbs of Calcutta	33 5
Puri	48 3	Puri	31·5
Durbhanga	44·1		
Santipore	36 8		
Bhagulpore	29 9		
Chupra	29·3		

3. The mortality from the diseases (specified below) exhibits no noticeable difference in comparison with the death-rates from the same diseases in the preceding week:—

	Ratio per *mille* during the weeks ending — 9th March 1889.	2nd March 1889.
Cholera	3·7	4 2
Small-pox	4	·1
Fever	8 3	9 1
Bowel-complaints	2 4	3 0
Injury	·5	·5
Other causes	6·5	5·8

4. The highest rates of deaths from cholera and the diseases coming under the head of "Other causes" were returned from the following Municipalities:—

Cholera.	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Naraingunj	12·4	Serampore	15 7
Santipore	12 3	Puri	14 7
Burdwan	10 7	Chupra	11 7
Howrah	9 7	Gya	10 9
Suburbs of Calcutta	9 3	Bhagulpore	10 0
Hughli	6·7		
Gya	2 7		

The other maladies, excepting fever, did not prove conspicuously fatal anywhere. Fever, however, appears to have prevailed with noticeable fatality only in Purneah town, where the death-rate was 27·7 per 1,000 of population.

5. With reference to *Sex*, *Class* and *Age*, the mortality of the week stood as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·2	Christians	26·1	Under 1 year ...	166 3
Females	19·1	Hindus	20·9	1 and under 5 years ..	26 5
Ratio of male deaths to every 100 female deaths	143	Mahomedans ...	24·1	5 „ 10 „ ...	12 3
				10 „ 15 „ ...	6 8
				15 „ 20 „ ...	14 1
				20 „ 30 „ ...	13 8
				30 „ 40 „ ...	18·4
				40 „ 50 „ ..	17 5
				50 „ 60 „ ...	24 6
				60 years and upwards .	49 7

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 25th March 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the [illegible]

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION			BIRTHS							MORTALITY ACCORDING TO—																			
												Disease															Sex.				
DISTRICTS	NAMES OF MUNICIPALITIES				NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths
Burdwan ...	Burdwan	18,063	[illegible]	34,080	5	11	16	7·6	16·8	24·4	45	7		9	1		5	22	10·7		13·7	1·5	.	7·6	33·6	70·2	16	6	46·1	19·5	266
Midnapore ...	Midnapore	16,927	[illegible]	[illegible]	7	5	12	10·5	7·7	[illegible]	140			1	1	.	5	7		.	1·5	1·5	.	7·7	10·8	23·2	3	4	9·2	12·5	75
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	10	11	21	13·4	14·8	28·2	90	5		7	2		5	19	6·7	.	9·4	2·7	..	6·7	25·5	18·5	13	6	35·2	16·0	216
Serampore	Serampore	13,559	12,937	26,49[illegible]	11	15	26	21·6	29·4	[illegible]	73	2		2	4	2	8	18	3·9		3·9	7·9	3·9	15·7	35·3	29·4	12	6	46·0	24·1	200
	Utterpara	3,046	2,464	5,510	1	1	2	9·4	9·4	18·9	100					1	2	3	.				9·4	18·9	28·3	[illegible]	2	1	17·1	21·1	200
Howrah ...	Howrah	53,153	37,660	90,813	23	19	42	13·1	10·9	24·0	121	17	1	7	3	1	11	40	9·7	·6	4·0	1·7	·6	6·3	22·9	21·8	26	14	25·4	19·3	185
	Bally	7,876	[illegible]	14,815	2	3	5	[illegible]	10·5	17·5	63	1		3		1	2	7	3·5		10·5		3·5	7·0	24·6	21·1	4	3	23·5	22·4	133
24-Pergunnahs ...	Suburbs of Calcutta	147,205	104,234	251,439	50	60	110	10·3	12·4	22·7	83	45	5	50	22	1	39	162	9·3	1·0	10·3	4·5	·2	8·1	33·5	40·3	92	70	[illegible]	34·9	131
Nuddea ...	Kishnaghur	13,263	14,214	27,477	10	1	11	[illegible]		20·8	1,000	..	.	8	1	.	2	11		.	15·1	1·9		3·8	20·9	22·7	8	3	31·4	11·0	266
	Ranaghat	4,028	4,655	8,683				.							.	..	.			.		...	...	..	.	..		.	.	.	...
	Santipore	13,708	15,979	29,687	14	7	21	24·5	12·3	36·8	200	7	.	2	1			10	12·3		3·5	1·7	..	..	17·5	3·5	4	6	15·2	19·5	66
Jessore ...	Jessore	4,530	3,965	8,495	1	3	4	6·1	18·4	24·5	33			1	.	.	.	1	..		6·1	...		.	6·1	18·4	1	.	10·8	..	No female death.
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	12	7	19	31·5	18·6	40·9	171		..	6			1	7		..	15·8	...	...	2·6	18·4	18·4	7	...	33·8	...	No female death.
Darjiling ...	Darjiling*	5,029	2,947	7,976	...	3	3		19·5	13·5	No male birth		.	2	.		1	3			15·0	..	..	6·5	19·5	13·0	2	1	20·7	17·6	200
Dacca ...	Dacca	42,782	47,379	90,161	16	16	32	10·4	10·4	21·8	100		1	18	6	...	8	33	.	·6	11·7	3·9		5·2	21·4	14·3	21	12	25·5	16·7	175
	Naraingunj	7,605	4,956	12,561	9	5	14	37·3	20·7	58·0	180	3	.	2	..		1	6	12·4	.	8·3		...	4·1	24·8	24·8	3	3	20·5	31·5	100
Chittagong ...	Chittagong	13,340	8,790	22,130	3	7	10	7·0	15·4	25·5	42	.		3	...		1	4		.	7·0		...	2·3	9·4	7·0	2	2	7·8	11·8	100
Tipperah ...	Comillah	8,153	5,353	13,506	3	12	15	11·5	40·2	57·8	25		.	3	.		1	4			11·5		.	3·9	15·4	15·4	1	3	6·4	29·1	33
Patna ...	Patna City	78,762	81,475	160,237	21	18	39	6·8	5·8	12·7	116		1	17	2	5	10	35	..	·3	5·5	·6	1·0	3·2	11·3	10·7	20	15	13·2	9·6	133
Gya ...	Gya	38,290	37,831	76,121	8	7	15	5·4	4·8	10·2	114	4	1	17	3		16	41	2·7	·7	11·6	2·0		10·9	28·0	18·4	21	20	28·5	27·5	105
Shahabad ...	Arrah	20,960	22,505	43,465	3	4	7	3·6	4·5	8·4	75			4	..	.		4		.	4·8	..	..		4·8	5·9	1	3	2·5	6·9	33
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	4	5	9	4·8	6·1	10·9	80	.	.	2	...		7	9			2·4	.	...	8·5	10·9	4·9	6	3	13·9	7·9	200
Durbhanga ...	Durbhanga	33,774	32,322	66,096	28	28	56	22·0	22·0	44·1	100	1		18	5		5	29	·8	.	14·2	3·9	...	3·9	22·8	20·5	15	14	23·1	22·5	107
Sarun ...	Chupra	26,044	27,205	53,249	14	16	30	13·7	15·6	29·3	87			3	1	2	12	18	.	...	2·9	1·0	1·9	11·7	17·6	8·8	11	7	22·0	13·4	157
Bhagulpore ...	Bhagulpore	29,640	27,813	57,453	13	20	33	11·8	18·1	29·9	65			9			11	20		...	8·1	.	...	10·0	18·1	10·9	8	12	14·0	22·4	66
Monghyr ...	Monghyr	28,154	29,366	57,520	19	11	30	17·2	9·9	27·1	172			7	4	1	5	17	..	...	6·3	3·6	·9	4·5	15·4	15·4	11	6	20·3	10·6	183
Purneah ...	Purneah	8,463	6,553	15,016	4	2	6	13·9	6·9	20·8	200	1	..	8	1	.		10	3·4	..	27·7	3·4	...	..	34·6	38·1	6	4	36·9	31·7	150
Puri ...	Puri	13,247	11,537	24,784	13	10	23	27·3	21·0	45·3	130	1		3	4		7	15	2·1		6·3	8·4	...	14·7	31·5	27·3	11	4	43·2	18·0	275
	Total ...	702,890	619,691	1,322,581	304	307	611	11·9	12·1	24·0	99	94	9	212	61	14	165	555	3·7	·4	8·3	2·4	·5	6·5	21·8	22·7	327	228	24·2	19·1	143

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO—

Class. (13, 14)

Districts.	Names of Municipalities.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan		9	13				19·8	65·9		
Midnapore	Midnapore		7			...	..	14·0			
Hughli	Hughli and Chinsurah		12	7		..		19·7	53·3		
Serampore	Serampore	...	16	2				33·0	110·9	...	
	Utterpara	...	3					29·3			
Howrah	Howrah	1	26	13			27·5	19·8	33·0		
	Bali		7		..		..	27·1			
24-Pergunnahs	Suburbs of Calcutta	4	96	62		..	51·4	33·3	33·4		
Nuddea	Kishnaghur		7	4			..	19·5	25·1		..
	Ranaghat	..									
	Santipore	...	4	6			...	10·0	34·9		..
Jessore	Jessore		1	..	..			11·5			...
Rajshahye	Rampore Beauleah	..	3	4	..			15·7	21·2		..
Darjiling	Darjiling		3					34·9		..	
Dacca	Dacca		17	16	..	...		21·9	21·2		
	Naraingunj		1	5				6·2	42·2		
Chittagong	Chittagong		..	4			..		13·6		..
Tipperah	Comillah	...		4		...	...		25·1		
Patna	Patna City	1	31	3			146·5	13·6	3·8		..
Gya	Gya	..	35	6		..		30·3	19·4	...	..
Shahabad	Arrah	...	2	2	...			3·4	8·4	...	...
Mozufferpore	Mozufferpore		3	6	...	..		5·2	55·0	...	
Durbhanga	Durbhanga	..	22	7		..		23·6	20·7		
Sarun	Chupra	...	16	2	...		..	26·2	8·7	...	
Bhagulpore	Bhagulpore	..	12	8	...		...	15·7	24·1	..	...
Monghyr	Monghyr	..	14	3	..	...	...	16·3	12·4	..	..
Purneah	Purneah		5	5	...		...	28·3	45·9		
Puri	Puri		15		...	..		31·8			
	TOTAL	6	367	182			26·1	20·9	24·1		

Age. (15) Deaths.

Districts.	Names of Municipalities.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	2	1	1	..	3	4	4	2	2	3
Midnapore	Midnapore		3			...	1	1		...	2
Hughli	Hughli and Chinsurah	6	1	1	2	..	3	2	2	..	2
Serampore	Serampore	5			1	1	5	2	1	1	2
	Utterpara		1					1	1		
Howrah	Howrah	2	1	3		4	8	12	4	3	3
	Bali	2	3					...			2
24-Pergunnahs	Suburbs of Calcutta	24	15	8	5	8	25	35	15	9	18
Nuddea	Kishnaghur	1		1		..	2	1	2	2	2
	Ranaghat		...			..		...	...	...	
	Santipore	2		1	1	1	1	...	1	1	2
Jessore	Jessore			...	..	...		1		...	
Rajshahye	Rampore Beauleah	2	1		...	1	1	1		1	...
Darjiling	Darjiling	2							1	...	...
Dacca	Dacca	7	7	1	2	2	2	2	2	4	4
	Naraingunj	2	1			1	...	1	...	1	
Chittagong	Chittagong				..		1	1	1		1
Tipperah	Comillah	2					...	1		..	1
Patna	Patna City	6	3	3		1	2	5	1	6	8
Gya	Gya	8	3	2	...	..	3	4	8	4	9
Shahabad	Arrah				1		1			...	2
Mozufferpore	Mozufferpore	3			..	...			1	5	
Durbhanga	Durbhanga	2	8	6	3	1	4	1	...	..	4
Sarun	Chupra	6	2	1		1	1	1	3	1	2
Bhagulpore	Bhagulpore	4	2	1	...	...	4	2	2	2	3
Monghyr	Monghyr	3	2	1		1	1	1	5	1	2
Purneah	Purneah	1	1	1		1	1	2	1	2	..
Puri	Puri	5	1		..	1	2		1		5
	TOTAL	97	56	31	15	27	72	51	54	45	77

Age. (16) Ratio per 1,000 of Population per Annum.

Districts.	Names of Municipalities.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	157·6	23·0	22·3		49·9	26·3	30·2	23·5	42·4	105·3
Midnapore	Midnapore	...	66·3	......	...	......	7·1	9·4	......	......	56·8
Hughli	Hughli and Chinsurah	330·9	19·5	14·9	34·4	...	20·3	14·8	20·2		41·5
Serampore	Serampore	366·2	...	.	23·4	23·8	48·3	20·9	15·4	27·2	74·8
	Utterpara		123·5	...	......	.	......	49·0	74·2		...
Howrah	Howrah	50·4	9·4	24·8	......	28·4	18·3	32·4	17·7	28·4	41·6
	Bali	257·3	156·2	..	..	...	...	..	...	......	142·1
24-Pergunnahs	Suburbs of Calcutta	261·9	48·3	21·0	14·5	23·1	22·4	35·2	23·0	27·6	65·7
Nuddea	Kishnaghur	104·8	...	15·1	...	...	21·6	12·1	31·9	49·4	60·2
	Ranaghat	...	......	......	......	......	...	...	......	...	......
	Santipore	123·1	...	13·8	17·9	23·4	10·6	...	14·8	22·6	53·0
Jessore	Jessore	...	......	...	......	..	...	34·0	......	......	......
Rajshahye	Rampore Beauleah	256·2	36·7	...	......	31·3	12·5	14·4	......	41·9	......
Darjiling	Darjiling	859·5	...	......	...	...	......	......	75·1	......	......
Dacca	Dacca	191·8	49·4	5·2	13·2	14·2	6·8	8·9	12·4	43·9	37·3
	Naraingunj	372·8	45·6	...	.....	49·8	...	24·3	......	66·4	......
Chittagong	Chittagong	...	......	......	......	...	11·2	15·6	23·0	......	65·3
Tipperah	Comillah	550·2	...	...	...	...	...	26·1	...	......	76·7
Patna	Patna City	72·4	10·7	9·3	...	4·7	3·6	11·2	2·8	22·1	30·1
Gya	Gya	232·4	24·6	14·9	......	......	10·6	16·3	42·6	31·6	90·9
Shahabad	Arrah	..	...	...	11·8	...	6·6	...	......	......	36·1
Mozufferpore	Mozufferpore	163·4	...	...	...	...	...	......	10·4	80·1	...
Durbhanga	Durbhanga	66·8	54·7	39·9	28·1	12·9	15·6	4·7	......	......	65·1
Sarun	Chupra	216·1	19·6	8·4	...	14·6	5·5	6·4	24·9	12·3	29·9
Bhagulpore	Bhagulpore	174·2	19·2	8·9	......	...	19·0	11·2	16·2	24·4	48·3
Monghyr	Monghyr	105·1	16·7	7·4	...	13·8	5·0	5·8	40·8	13·1	29·0
Purneah	Purneah	183·7	43·0	32·9	...	52·3	15·8	36·5	28·0	111·0	......
Puri	Puri	858·1	28·9	.	.	28·0	19·7	..	15·6	...	144·0
	TOTAL	1·63	26·5	12·3	6·8	14·1	13·8	18·4	17·5	24·6	49·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 25th March 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 23rd March 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 23rd March 1889.			Week ending Saturday, the 24th March 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	659	1,58,550	2,626	728	2,58,810	4,597
Jute	20	13,550	233	57	35,050	604
Firewood	160	66,175	865	189	85,425	1,309
Other articles	1,006	2,84,235	4,523	841	2,26,350	3,462
Total ...	1,845	5,22,510	8,247	1,815	6,05,665	9,972

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of January 1889, as compared with the same month of the previous year.

STAPLES.	1888		1889		Total		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	870	...	794	... ..	870	794	..	76
Cotton, raw	23	.	12	.. ...	23	12	.	11
Cotton piece-goods—								
1.—European	50	1	42	. ..	51	42	......	9
Drugs and chemicals—								
2.—Non-intoxicating—								
b.—Others	1	... ..	... ..	......	1	. .	.	1
Jute—								
1.—Raw	.	..	.	22	...	22	22	... ..
2.—Gunny bags and cloths .. .	39	2	24	4	41	28	......	13
Grains—								
2.—Rice	4	1,491	88	1,148	1,495	1,186	.	309
5.—Others	21	167	30	71	188	101	... ..	87
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	1	... ..	..	4	1	4	3	......
b.—Undressed .	1	... ..		1	1	1	.....	. . ..
Leather, manufactured	5	6	5	..	11	5	......	6
Liquors—								
1.—Beer	2	.	8	.	2	8	6	
2.—Wines ...	1	....	1		1	1	......	......
Metals—								
2.—Iron	8	.	3		8	3	...	5
4.—Others	5	. ..	10	4	5	14	9	......
Oils—								
1.—Castor	1		4	1	1	5	4	..
2.—Kerosine	1	. ..	2	1	1	3	2	... ..
3.—Others	2	..	10	..	2	10	8	. . . .
Provisions—								
1.—Ghee . .	4	...	3		4	3		1
2.—Dried fruits and nuts .	3	. .	2	.	3	2	...	1
3.—Others	29		73		29	73	41	...
Railway plant and rolling-stock	15	..	77	9	15	86	71	
Salt . ..	24	...	30	1	24	31	7	..
Oilseeds—								
1.—Linseed		37	.....		37		. ...	37
2.—Mustard and rape	67	.	74	. .	67	74	7	..
3.—Til or gingelly	2		... .		2	. .	... ..	2
6.—Others .. .	5	.	6		5	6	1	....
Silk, raw—								
2.—Indian	15	18	13	23	23	36	3	...
Silk piece-goods—								
2.—Indian	.	5		3	5	3		2
Stone and lime	1	.	.. .	.	1	..		1
Sugar—								
1.—Drained	19	..	24	.. .	19	24	5	
2.—Undrained	15		24		15	24	9	
Tobacco	6		... ..	3	6	3		3
Timber . ..	.		3		...	3	3	
Paper and pasteboard .	2	. .	1	..	2	1		1
All other articles of merchandise	53	.	75	17	53	92	39	
Total ...	1,295	1,727	1,588	1,312	3,022	2,700	245	567

INCREASE. — Tons.

Jute—
(1) Raw .. . . — 22
This increase is due to export by rail owing to the river communication between Jeaganj and Calcutta being stopped for insufficient water.

Provisions—
(3) Others ... ... — 41
The increase under this head is due to import of potatoes owing to high rate at Azimganj.

Railway plant and rolling-stock . ... — 73
The increase is due to more materials carried during the month.

DECREASE.

Coal . . .. — 76
This decrease is due to previous stock not being exhausted.

Cotton, raw . . .. — 11
This decrease is due to less import owing to dull market.

Gunny bags and cloths . .. . .. — 13
This decrease is due to less export of grains from intermediate stations.

Grains—
(2) Rice . . .. — 309
The decrease under this head is due to less export from intermediate stations.

(5) Others ... . — 87
This decrease is due to less import of gujia seed on account of high rate.

Oilseeds—
(1) Linseed ... ... — 37
This decrease is due to less export owing to high rate.

The 23rd March 1889.

R. G. MOOKERJEE, *Manager, Nalhati State Railway.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	271,235	3,07,514 10 0	28,26,582 0	5,96,621 13 0	17,055 0 0	9,21,491 7 0	69,014¼	97,501¾	166,516
Or per mile of railway .		203 5 7		394 2 2	11 4 3	608 12 0	... ..	. . ..	. ...
For previous 10 weeks of half-year	2,493,299	29,61,038 7 0	2,76,63,500 0	60,23,066 4 4	1,54,656 9 5	91,38,761 4 9	649,697¼	957,628¾	1,607,326¼
Total for 11 weeks ..	2,764,534	32,68,853 1 0	3,04,90,082 0	66,19,688 1 4	1,71,711 9 5	1,00,60,252 11 9	718,711½	1,055,130¾	1,773,842¼
COMPARISON.									
Total for corresponding week of previous year	254,304½	3,00,745 4 0	25,83,328 30	5,85,065 15 0	25,941 0 10	9,11,752 3 10	65,533	99,142	164,675
Per mile of railway corresponding week of previous year	.	198 10 10	.	386 8 0	17 2 2	602 5 0	......	..	.....
Total to corresponding date of previous year .. .	3,010,562½	35,43,816 4 11	3,10,05,244 0	73,39,214 10 0	2,60,943 15 11	1,11,43,974 14 10	731,287	1,165,942	1,897,229

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 17th March 1888			Receipts for week ending 16th March 1889			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
1,513¾	9,11,752	602	1,513¾	9,21,491	609	1,513¾	4,45,02,741	588	1,513¾	4,26,66,902	564	.. ..	18,35,839

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 57⅕ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried.	Receipts			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	15,378	8,805 6 0	32,159 0	2,237 8 0	33 4 0	11,076 2 0	2,039	469	2,508
Or per mile of railway .	269	153 15 1	562 10	39 1 10	0 9 4	193 10 3	.. .	.....	......
For previous 10 weeks of half-year	119,123	66,978 6 0	2,70,735 0	16,828 9 0	358 1 10	84,165 1 10	18,277¼	5,789	24,066¼
Total for 11 weeks ...	134,499	75,783 12 0	3,02,894 0	19,066 1 0	391 5 10	95,241 2 10	20,316¼	6,258	26,574¼
COMPARISON.									
Total for corresponding week of previous year	15,096½	8,566 5 6	31,438 10	2,179 4 0	27 13 0	10,773 6 6	1,798	596	2,394
Per mile of railway corresponding week of previous year .	264	149 12 2	549 30	38 1 7	0 7 9	188 5 6	..		.. ...
Total to corresponding date of previous year	174,367	97,766 8 4	3,40,180 20	22,129 7 0	560 15 0	1,20,456 14 4	20,680	5,996	26,676

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅕	10,773	188	57⅕	11,076	194	57½	5,00,603	175	57½	4,63,360	162	...	37,243

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	2,733	466 2 0	19,912 0	435 15 0	9 0 0	911 1 0	378½	115	493½
Or per mile of railway ..	.	38 13 6	...	36 5 3	0 12 0	75 14 9	..	...	...
For previous 10 weeks of half-year	25,608	4,325 12 0	1,68,391 20	3,701 3 0	125 1 8	8,152 0 8	3,372¾	1,421¼	4,794
Total for 11 weeks ..	28,341	4,791 14 0	1,88,303 20	4,137 2 0	134 1 8	9,063 1 8	3,751¼	1,536¼	5,287½
Comparison.									
Total for corresponding week of previous year .	2,603	434 5 10	23,321 20	452 1 0	10 7 0	896 13 10	355	138	493
Per mile of railway corresponding week of previous year	.. .	36 3 2	.. .	37 10 9	0 13 11	74 11 10	. .	..	.
Total to corresponding date of previous year	33,056	5,559 5 5	2,49,270 20	5,206 14 0	127 9 3	10,873 12 8	3,681	1,742	5,123

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
12	897	75	12	911	76	12	46,394	77	12	42,836	71	..	3,558

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs A P	Rs. A. P			
Total traffic for the week ...	21,578	5,600 12 0	11,202 0	442 0 0	7 8 0	6,050 4 0	902	66	968
Or per mile of railway . .		251 11 6	.. ..	19 15 10	0 5 5	271 14 9	...	...	.
For previous 10 weeks of half-year	206,395	52,513 5 0	94,682 0	3,316 4 0	67 6 10	55,896 15 10	9,057	610	9,667
Total for 11 weeks ...	227,973	58,114 1 0	1,05,884 0	3,758 4 0	74 14 10	61,947 3 10	9,959	676	10,635
Comparison.									
Total for corresponding week of previous year	19,964½	5,115 2 2	7,282 30	265 5 0	14 4 0	5,394 11 2	894	74	968
Per mile of railway corresponding week of previous year .	... ..	229 14 4	.	11 14 9	0 10 3	242 7 4	...	...	...
Total to corresponding date of previous year	237,218	61,351 12 11	96,074 10	3,349 3 0	86 4 6	64,787 4 5	9,809	971	10,780

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888			Total receipts from 1st April 1888 to 16th March 1889			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,395	242	22½	6,050	272	22½	2,58,016	232	22½	2,65,803	239	7,787	......

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 9th March 1889, *on* 673 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	a202,560	83,610 0 0	4,79,900 0	78,640 0 0	14,050 0 0	1,76,300 0 0	22,218	21,062	43,280
Or per mile of railway	301	124 0 0	713 0	117 0 0	*3 0 0	244 0 0	... .	.. .	.
For previous 9 weeks of half-year	1,260,289	6,57,170 0 0	44,82,840 0	8,65,670 0 0	1,55,020 0 0	16,77,860 0 0	188,131	230,345	418,476
Total for 10 weeks .	1,462,849	7,40,780 0 0	49,63,740 0	9,44,310 0 0	1,69,070 0 0	18,54,160 0 0	210,349	251,407	461,756
Comparison.									
Total for corresponding week of previous year	144,896	b1,04,695 0 0	4,82,155 0	76,218 0 0	15,113 0 0	1,96,026 0 0	24,915	27,507	52,422
Per mile of railway corresponding period of previous year	225	162 0 0	747 0	118 0 0	*3 0 0	283 0 0	. . ..	... ..	.....
Total to corresponding date of previous year	1,473,023	8,18,854 0 0	55,06,369 0	8,35,202 0 0	1,67,352 0 0	18,21,408 0 0	224,439	252,964	477,403

* Excluding steamer earnings
a Includes 52,400 monthly tickets
b Includes Rs. 11,688 for military live-stock and baggage for Sikkim expedition, Rs. 3,600 for haulage of Post Office and heavy fish traffic.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,96,026	304	673	1,76,300	262	645	91,71,120	290	673	*1,00,84,385	306	9,13,265	.....

* Audited up to week ending 31st December 1888

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	*39,350	12,050 0 0	63,300 0	3,930 0 0	80 0 0	16,060 0 0	3,597	2,075	5,672
Or per mile of railway .	315	96 0 0	506 0	31 0 0	1 0 0	128 0 0	......	......	......
For previous 9 weeks of half-year	226,850	82,050 0 0	4,54,388 0	24,180 0 0	3,820 0 0	1,10,050 0 0	31,433	17,082	48,515
Total for 10 weeks ...	266,200	94,100 0 0	5,17,688 0	28,110 0 0	3,900 0 0	1,26,110 0 0	35,030	19,157	54,187
Comparison.									
Total for corresponding week of previous year ..	28,632	9,860 0 0	66,462 0	4,463 0 0	63 0 0	14,386 0 0	3,119	1,993	5,112
Per mile of railway corresponding period of previous year	231	79 0 0	532 0	36 0 0		115 0 0	......	......	......
Total to corresponding date of previous year	267,175	94,324 0 0	5,11,691 0	32,147 0 0	3,148 0 0	1,29,619 0 0	33,354	19,309	52,663

* Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,386	115	125	16,060	128	125	6,35,203	104	125	*6,72,266	110	37,063	......

* Audited up to week ending 31st December 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	17,020	5,570 0 0	9,410 0	790 0 0	260 0 0	6,620 0 0	2,402	702	3,104
Or per mile of railway	198	65 0 0	109 0	9 0 0	3 0 0	77 0 0	...	..	
For previous 9 weeks of half-year ...	125,975	42,300 0 0	1,24,940 0	10,820 0 0	2,930 0 0	56,050 0 0	21,236	5 846	27,082
Total for 10 weeks	142,995	47,870 0 0	1,34,350 0	11,610 0 0	3,190 0 0	62,670 0 0	23,638	6,548	30,186
Comparison.									
Total for corresponding week of previous year	14,760	4,463 0 0	10,273 0	1,025 0 0	243 0 0	5,731 0 0	2,185	619	3,104
Per mile of railway corresponding period of previous year	172	52 0 0	119 0	12 0 0	3 0 0	67 0 0	...	...	.
Total to corresponding date of previous year	140,685	42,588 0 0	1,31,832 0	10,211 0 0	1,934 0 0	54,733 0 0	24 850	6,190	31,040

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,731	67	86	6,620	77	86	2,80,671	67	86	*2,85,998	68	5,327	.

* Audited up to week ending 31st December 1888.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 9th March 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,630	840 0 0	26,300 0	2,030 0 0	10 0 0	2,980 0 0	532	532	1,064
Or per mile of railway	69	22 0 0	692 0	54 0 0		76 0 0		.	
For previous 9 weeks of half-year .	26,460	10 590 0 0	2,32,730 0	16,620 0 0	220 0 0	27,430 0 0	4,660	4,660	9,320
Total for 10 weeks	29,090	11,430 0 0	2,59,030 0	18,650 0 0	230 0 0	30,310 0 0	5,192	5,192	10,384
Comparison									
Total for corresponding week of previous year	3,583	1,152 0 0	31,131 0	2,443 0 0	101 0 0	3,696 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	92	3 0 0	798 0	63 0 0	2 0 0	95 0 0	....	.	
Total to corresponding date of previous year	31,694	11,175 0 0	2,52,166 0	18,225 0 0	513 0 0	29,913 0 0	5,460	5,460	10,920

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 10th March 1888.			Receipts for week ending 9th March 1889.			Total receipts from 1st April 1887 to 10th March 1888.			Total receipts from 1st April 1888 to 9th March 1889.			Total increase in 1888-89	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,696	95	38	2 880	76	39	1,16,954	61	38	*1,63,316	88	46,362	...

* Audited up to week ending 31st December 1888.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 16th March 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,810	1,410 0 0	6,564 0	503 0 0	18 0 0	1,931 0 0	509	254	763
Or per mile of railway	140	52 0 0	241 0	18 0 0	1 0 0	71 0 0	.. .	......	......
For previous 9 weeks of half-year	33,480	12,242 0 0	1,45,859 0	8,119 0 0	160 0 0	20,521 0 0	4,945	4,998	9,943
Total for 10 weeks ..	37,290	13,652 0 0	1,52,423 0	8,622 0 0	178 0 0	22,452 0 0	5,454	5,252	10,706
COMPARISON.									
Total for corresponding week of previous year	3,190	1,168 0 0	16,142 0	937 0 0	19 0 0	2,124 0 0	509	635	1,144
Per mile of railway corresponding week of previous year	117	43 0 0	592 0	34 0 0	1 0 0	78 0 0	...	......	. ..
Total to corresponding date of previous year	37,615	13,825 0 0	2,06,887 0	10,887 0 0	310 0 0	25,020 0 0	5,599	5,777	11,376

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 17th March 1888			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,124	78	27¼	1,931	71	27¼	91,113	68	27¼	97,693	73	6,580	... .

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 16th March 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open .	44,166	17,570 0 0	1,30,734 0	11,377 0 0	2,973 0 0	31,920 0 0	5,510	4,761	10,271
Or per mile of railway	162	64 0 0	479 0	42 0 0	2 0 0	108 0 0	...	.. .	..
For previous 9 weeks of half-year .	398,744	1,48,947 0 0	13,51,197 0	1,30,553 0 0	31,317 0 0	3,10,817 0 0	54,403	57,457	1,11,860
Total for 10 weeks	442,910	1,66,517 0 0	14,81,931 0	1,41,930 0 0	34,290 0 0	3,42,737 0 0	59,913	62,218	1,22,131
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	38,287	14,737 0 0	2,17,460 0	22,275 0 0	2,635 0 0	39,647 0 0	6,167	8,204	14,371
Per mile of railway corresponding week of previous year	148	57 0 0	839 0	86 0 0	1 0 0	144 0 0	......	.....	...
Total to corresponding date of previous year . .	472,890	1,92,815 0 0	23,01,289 0	2,55,199 0 0	32,521 0 0	4,80,535 0 0	72,974	93,718	1,66,692

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 17th March 1888			Receipts for week ending 16th March 1889			Total receipts from 1st April 1887 to 17th March 1888			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	39,647	153	273	31,920	117	252·32	17,51,757	143	265·68	15,92,240	122	....	1,59,517

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 2nd March 1889	9,948
Corresponding week last year	11,418
Decrease	1,470
Receipts from 1st January to 2nd March 1889	65,207
From 1st January to 3rd March 1888	67,588
Decrease	2,381
	Miles.
Miles open week ending 2nd March 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 2nd March 1889	195 0 11
Corresponding week last year	223 14 3
Decrease	28 13 4

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 9th March 1889	10,465
Corresponding week last year	10,224
Increase	241
Receipts from 1st January to 9th March 1889	75,672
From 1st January to 10th March 1888	77,812
Decrease	2,140
	Miles.
Miles open week ending 9th March 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 9th March 1889	205 3 1
Corresponding week last year	200 7 8
Increase	4 11 5

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 27th March 1889.

REGISTERED No. 29.

No. 14 of 1889.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, APRIL 3, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

Irrigation.

THE following notes on crop experiments made upon lands irrigated from the Sone Canals are published for general information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lt.-Colonel*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

No. 514, dated Arrah, the 7th February 1889.

From—C. W. ODLING, ESQ., Superintending Engineer, Sone Circle,
To—The Chief Engineer, Bengal, Irrigation Branch.

I HAVE the honor to submit, for your information, the papers marginally noted, containing the result of the crop experiments carried out in the Sone Circle during the kharif season 1888-89. Mr. Luson, C.S., on special duty, at my request, undertook the task of tabulating and commenting on the whole of the experiments. His note thereon is of so much public interest that I beg to suggest that it shall be published in the *Calcutta Gazette* for general information.

Enclosures.

Note by Mr. H Luson, C.S., dated 4th February 1889.
Appendix I—
Notes on experiments on shrinkage of dhan and straw on drying.
Appendix II—
Letter No. 4980 of the 14th December 1888, from Messrs. Burrows, Thomson and Mylne.
Letter No. 4982 of the 19th December 1888, from Messrs. Burrows, Thomson and Mylne.
Executive Engineer Eastern Sone Division's memorandum No 357 of the 19th January 1889, and enclosures.
Executive Engineer Buxar Division's letter No. 166 of the 19th January 1889, and enclosures.
Executive Engineer Arrah Division's memorandum No. 174 of the 17th January 1889, and enclosures.
Executive Engineer Arrah Division's memorandum No. 217 of the 19th January 1889, and enclosures.

2. There has been much discussion as to the yield of crops on lands irrigated by the canals, but with the exceptoin of the experiments taken yearly by canal officers, which are annually noticed in the Revenue Report, there are few facts to go on.

3. The experiments commented on in the note were taken, (I) by Mr. Luson himself, (II) by Messrs. Burrows, Thomson and Mylne, who with great public spirit undertook the duty at my request, and (III) by canal officers and subordinates. Experiments classes (I) and (II) are separately detailed in the note, whilst those under class (III) have been grouped together.

4. The accuracy of the experiments carried out by canal officers having been somewhat questioned last year before the Irrigation Committee, they were this year carried out with the utmost publicity in the presence of civil officers, zemindars and others who could be induced to attend. The names of the persons present at each experiment are noted in the reports Appendix (II), and you will on inspection see that representatives of all classes interested in agriculture were present, and that the experiments were generally largely attended.

Note by HEWLING LUSON, ESQ., C.S., *on special duty in the Public Works Department, upon crop experiments on canal-irrigated dhan taken in the Sone Circle during the kharif season of* 1888-89,—*dated Arrah, the 4th February* 1889.

THIS report incorporates, at the Superintending Engineer's request, the figures supplied by Messrs. Burrows, Thomson, and Mylne of Beehea, and by the Executive Engineers in charge of the three Divisions of the Circle, with the results of my own experiments.

2. The returns given by the Canal Sub-divisional Officers have been separated from those given by their subordinates, and in the following tables the figures obtained by (*a*) Messrs. Burrows, Thomson and Mylne, (*b*) the Canal Sub-divisional Officers, (*c*) the Canal subordinates, and (*d*) by myself, are compared side by side.

3. All the weighments made by Messrs. Burrows, Thomson, and Mylne and myself were made after the grain and straw had been thoroughly dried In my experiments the crop, directly it was cut, was sewn up in stout cloth and sent to head-quarters; it was not weighed till after exposure to the sun for 15 days on the average. With the exception of 15 experiments made by Mr. Maconchy, Executive Engineer, and Messrs. White and Clowes, Assistant Engineers, all the figures supplied by the Canal Officers represent weighments of crops made at once upon the fields, as was directed in paragraph 1 of the Superintending Engineer's instructions of the 25th October last. Though weighing on the field was evidently meant to secure publicity, yet it seems to me that accuracy has to some extent been sacrificed. Rice is always cut before it is quite ripe, and is then laid upon the ground to dry for several days, after which it is tied up in bundles and taken to the threshing-floors. There is a saying current in these districts, दुधी धान बुढ़ रबी (*dudhi dhan buddha rabi*), *i.e.* "you must cut rice when the grains are still milky, but *rabi* crops you may gather when they are old" and I have noticed that, if rice is allowed to get quite ripe before cutting, the corn drops out very easily. In order, therefore, to secure all the grain, experiments should be made on crops which are damp.

4. Seventeen experiments were made by Messrs Maconchy and White, a subordinate, and myself, upon the shrinkage of *dhan* in drying. The average of these experiments gives about 8·33 per cent. Twenty-one experiments were made by me upon the shrinkage of straw, and they averaged nearly 33·33 per cent Tables showing the calculations of these averages will be found in Appendix No 1.

5. The co-efficient of shrinkage is not constant; it depends upon the kind of rice and when it was last watered. Some crops are irrigated till within a few days of cutting for the sake of the second crop sown with the *dhan* It would also make a material difference whether the experiment was made in the morning or afternoon, as the dew at night is heavy. The variations in the weight of the straw from shrinkage are obviously liable to be greater than those of the grain. In order, however, to compare the various results, I have reduced the figures of all the wet weighments according to the co-efficients given in the last paragraph. The actual figures sent in will be found in Appendix No. 2.

6. *Transplanted aghani dhan irrigated throughout the season with canal water.*—The following table represents the results of 222 experiments upon first-class crops only. None of the figures are supposed to represent average crops; they are intended to show the maximum obtainable under canal irrigation.

The results are given in maunds and seers per acre. *Dhan* means unhusked rice.

All figures marked* represent not actual weighments, but weighments reduced by the co-efficients given in paragraph 4.

H. Luson, Esq. 25 Experiments.				Messrs. Burrows, Thomson, and Mylne. 26 Experiments.			
Dhan.		Straw.		Dhan.		Straw.	
Maunds.	Seers.	Maunds.	Seers.	Maunds.	Seers.	Maunds.	Seers.
44	8	55	8	39	32	80	0
43	24	46	16	38	16	44	0
41	16	51	3	36	8	58	0
39	16	56	0	34	32	76	0
39	0	45	16	34	24	76	0
37	12	43	8	34	16	38	16
36	20	49	24	34	0	57	24
36	16	46	8	33	8	80	0
35	36	53	32	33	8	37	24
35	24	36	32	32	0	35	8
34	24	67	8	31	24	72	0
34	8	62	10	31	8	76	0
34	0	48	32	30	32	76	0
34	0	46	8	30	16	41	24
33	24	37	24	30	0	44	32
33	0	52	32	30	0	40	32
32	20	43	16	29	24	27	24
31	24	44	32	29	8	46	16
30	24	36	32	29	8	39	8
29	4	55	8	28	32	48	10
29	0	28	4	28	32	36	32
28	24	30	10	27	16	72	0
27	32	46	16	26	24	45	24
27	0	39	8	25	24	36	32
20	32	65	32	25	16	36	32
				24	24	32	32
25 | 840	28	25 | 1,185	36	26 | 809	32	26 | 1,366	16
Average = 33	30[illegible]	Average = 47	17[illegible]	Average = 31	5[illegible]	Average = 52	22[illegible]

Canal Sub-divisional Officers.

	Dhan.		Straw.	
	Number of experiments.	Average.	Number of experiments.	Average.
		Mds. s.		Mds. s.
C. A. White, Esq., Assistant Engineer, Sub-divisional Officer, Daodnagar	3	39 10[illegible]	1	60 0
M. H. Arnott, Esq., Assistant Engineer, Sub-divisional Officer, Monoharpur ..	2	30 0[illegible]*	2	85 14[illegible]*
Baboo Chandra Bhusan Datta, Supervisor, Sub-divisional Officer, Basawan	5	37 1[illegible]*	5	72 2[illegible]*
Baboo Kanty Chandra Banerjee, Supervisor, Sub-divisional Officer, Bikram	4	35 39[illegible]*	4	69 35[illegible]*
T. H. Clowes, Esq., Assistant Engineer, Sub-divisional Officer, Koath	5	35 17[illegible]	5	74 35[illegible]
H. Barlow, Esq., Assistant Engineer, Sub-divisional Officer, Sikraol	2	35 16[illegible]*	2	54 16*
Baboo Durga Churun Chukerbutty, Overseer, Sub-divisional Officer, Nasriganj	4	33 22[illegible]*	4	58 32[illegible]*
Mr. Street, Sub-Engineer, Sub-divisional Officer, Agmon	5	31 31[illegible]*	5	48 11[illegible]*
G. C. Maconchy, Esq., Assistant Engineer, Sub-divisional Officer, Ramnagar	3	31 17[illegible]	3	71 18[illegible]
Total .	33	35 6[illegible]	31	68 14[illegible]

Canal Subordinates.

	Dhan.		Straw.	
	Number of experiments.	Average.	Number of experiments.	Average.
		Mds. s.		Mds. s.
Arrah Division.				
Nasriganj sub-division ...	9	37 4$\frac{7}{16}$*	9	71 13[illegible]*
Agmon ditto	10	35 21[illegible]*	9	59 1[illegible]*
Ramnagar ditto ..	11	33 19[illegible]*	7	80 38[illegible]*
Koath ditto .	14	31 13[illegible]*	14	45 39[illegible]*
Total ...	44	34 0[illegible]	39	61 17[illegible]
Buxar Division.				
Basawan sub-division	16	32 16[illegible]*	16	67 24[illegible]*
Monoharpur ditto	22	31 26*	22	56 3[illegible]*
Sikraol ditto ..	21	29 5[illegible]*	21	48 0[illegible]*
Total	59	30 38[illegible]	59	53 37[illegible]
Eastern Sone Division				
Daodnagar sub-division ...	35	30 15[illegible]*	34	53 3[illegible]*
Bikram ditto	.			.....
Total ...	35	30 15[illegible]	34	53 3[illegible]
Grand Total	138	31 30[illegible]	134	55 38[illegible]

The results obtained from the different sources are nearly identical. The figures of Messrs. Burrows, Thomson and Mylne are slightly lower than the rest because a certain amount of wastage occurred from the method they adopted of drying the crop. They had it tied up in bundles and carried to head-quarters, so that some grain must have fallen out on the way. The wastage, however, would not be much greater than occurs usually when the cultivators carry the bundles from the fields. In my experiments there was absolutely no wastage, because as soon as it was cut the crop was sewn up in bags which were afterwards opened only in my presence. Similarly in weighing wet crops upon the ground the Canal Officers would not make any waste.

The figures of the Sub-divisional Officers are higher than the rest evidently because, taking a very small number of experiments each, they were mostly able to choose the very best crops. My own experiments were made at different places throughout the whole circle in the three districts, Shahabad, Gya, and Patna; and as all the *aghani* rice in the country is cut within a few days I had little time to choose specially fine crops.

The general average of the subordinates is somewhat lower than it should have been because in the Buxar and Eastern Sone Divisions sufficient care was not taken to experiment upon first class crops only. The Sub-divisional Officer of Sikraol remarks that in some case the best crops were allowed to be cut before the experiments were started, and in others the Sub-Overseers cut the rice nearest their bungalows to save the trouble of going a little distance for better. Similarly the returns of the Daodnagar sub-division have been reduced because in several cases the experiments were put off till the 25th of December, 12 days after I had seen that most of the crop had been cut. The subordinates of the Arrah Division have been better supervised and their figures are good, but it seems to me that in future no officer below the rank of a Sub-divisional Officer should take crop experiments. Six experiments carefully made by each Sub-divisional Officer would be of more value than any number made by subordinates who do not appreciate the value of scientific accuracy.

The variations in individual experiments (my best being 44 maunds 8 seers of *dhan* an acre and my worst 20 maunds 32 seers) are due to the differences of kinds of rice and kinds of soil, and I think also in some cases to want of experience in picking out the crop likely to give the largest outturn.

The crops in all these experiments are stated to have been regularly irrigated with canal water. Accordingly, as the rains failed after 9th September, they owe their existence entirely to the canals.

7. *Kartika dhan.*—The following table shows the results per acre of the 31 experiments made upon *Kartika* or early rice regularly irrigated by canal water. Figures marked * have been reduced on account of the crops having been weighed damp—

PERSON TAKING EXPERIMENT.	DHAN.			STRAW.		
	Number of experiments.	Average per acre.		Number of experiments.	Average per acre.	
		Mds.	s.		Mds.	s.
H. Luson, Esq.	3	35	$1\frac{1}{3}$	3	46	$36\frac{4}{7}$
G. C. Maconchy, Esq., Assistant Engineer, Sub-divisional Officer, Ramnagar ...	2	31	$4\frac{1}{6}$ †	2	56	$29\frac{1}{6}$
Messrs. Burrows, Thomson and Mylne ...	25	26	$37\frac{7}{24}$	25	16	$5\frac{19}{25}$
Subordinate, Agiaon sub-division	1	14	$19\frac{1}{3}$ *	1	33	6 *
Total ...	31	27	$21\frac{8}{9}$	31	46	$19\frac{1}{4}$

† One experiment wet, the other dry.

Kartika rice is not grown to any very large extent in the irrigated area, small patches being sown usually in each village for the early production of straw and *dhan*; hence apparently only three experiments were taken by representatives of the Canal Department.

The experiment of the subordinate of the Agiaon sub-division probably does not represent the best crop of the neighbourhood, but the most convenient to cut.

8. *Broadcast dhan.*—Eight experiments were made upon rice sown broadcast and irrigated regularly from the canals. *Kartika* and *aghani* are not separated in the following table. Figures marked* have been reduced on account of the crops having been weighed wet:—

PERSON TAKING EXPERIMENT.	DHAN.			STRAW.		
	Number of experiments.	Average per acre.		Number of experiments.	Average per acre.	
		Mds.	s.		Mds.	s.
Sub-divisional Officers	3	37	$11\frac{1}{3}$	1	54	0
Subordinates	2	33	$7\frac{1}{3}$*	2	39	$13\frac{1}{4}$*
Messrs. Burrows, Thomson, and Mylne ...	1	23	14	1	36	32
H. Luson, Esq.	2	22	22	2	31	$22\frac{6}{11}$
Total ...	8	30	$32\frac{7}{8}$	6	38	$30\frac{26}{41}$

Dhan is very seldom sown broadcast in areas in lease for canal water. Under the *ahra* system of irrigation considerable quantities of broadcast are sown inside the ahras on the *tal*, but the higher form of cultivation prevails under the canal system, as a regular supply of water can be depended upon, and I found a difficulty in obtaining good fields for experiment. Broadcast rice is very coarse and less valuable than the kinds transplanted. It loses more considerably in weight on drying.

9. *Aghani dhan irrigated after 15th October.*—As requested, specimens of the best rice that did not receive canal water till after 15th October, and had not before been irrigated from an *ahra*, are given. These experiments were made, some on transplanted and some on broadcast *dhan*—

PERSON MAKING EXPERIMENT.	DHAN.		STRAW.	
	Number of experiments.	Average per acre.	Number of experiments	Average per acre.
		Mds. s.		Mds. s.
Subordinates—				
(a) Of Monoharpur sub-division ...	4	17 26$\frac{47}{48}$*	4	38 2$\frac{7}{12}$*
(b) Of Sikraol ditto ...	7	10 35$\frac{17}{21}$*	7	18 8$\frac{4}{21}$*
(c) Of Koath ditto ...	4	10 30$\frac{1}{8}$*	4	24 15$\frac{1}{6}$*
(d) Of Ramnagar ditto ...	2	7 13$\frac{1}{3}$*	2	21 28*
Total ..	17	12 1$\frac{99}{204}$	17	24 12$\frac{1}{17}$
Baboo Kanta Chundra Banerjea, Supervisor, Sub-divisional Officer, Bikram ...	1	11 29$\frac{1}{3}$*	1	18 8$\frac{4}{21}$*
H. Luson Esq. ...	1	7 8	1	11 32
GRAND TOTAL ..	19	11 20$\frac{161}{228}$	19	23 12$\frac{247}{399}$

* Weighed wet; figures reduced by co-efficients given in paragraph 4.

I am inclined to doubt the accuracy of some of the results given by the Monoharpur subordinates; it is not improbable that crops which had been previously irrigated from an *ahra*, which afterwards dried up, have been taken. From what I saw of the *aghani dhan* that depended upon rain alone, and received no water from ahra or canal till the 15th October, I think that the produce of scarcely any field exceeded 10 maunds an acre.

No rain fell after 9th September till the time of harvest, so that the above figures (though not so trustworthy as they might be) tend to show this result—that the best crops, not artificially watered last season, were reduced by five weeks' want of water to less than one-third of what they would have been if irrigated throughout.

10. *Dhan irrigated from ahras only.*—One experiment was taken by Mr. White, Assistant Engineer, Sub-divisional Officer of Daodnagar, upon rice irrigated from an *ahra*, and 18 such by subordinates. I took none, as my instructions stated that they were not required. The following is an analysis of the figures:—

PERSONS CONDUCTING EXPERIMENTS.	DHAN.		STRAW.	
	Number of experiments.	Average per acre.	Number of experiments	Average per acre.
		Mds. s.		Mds. s.
C. A White, Esq., Assistant Engineer ...	1	30 8	......	......
Subordinates—				
Koath Sub-division	1	26 16*	1	40 0 *
Agiaon ditto —	4	11 33$\frac{1}{4}$*	4	25 9$\frac{1}{6}$*
Daodnagar ditto	10	12 4*	10	31 29$\frac{1}{6}$*
Sikraol ditto	3	4 0$\frac{13}{16}$*	3	6 4*
	18	12 6$\frac{5}{16}$	18	26 18$\frac{25}{27}$

* Weighed wet and reduced by co-efficients given in paragraph 4.

The figures of the subordinates are of little value, as, although they may represent the best *ahra*-irrigated rice that could be conveniently found by them, except in the case of large *ahras* almost all the rice not watered by the canals was very insufficiently irrigated or died. These figures do not represent the results that can be produced by a plentiful supply of *ahra* water. I saw rice irrigated from *ahras* in one or two places at least as good as the best canal-irrigated rice, but in a year like the last, it is extremely difficult to make a comparison of the best crops under both systems, because in scarcely any villages near the canals was a plentiful supply of *ahra* water kept up throughout the season.

If comparisons are to be made between crops irrigated by the two kinds of water, the experiments should certainly be conducted by officers of the proper experience and qualifications. Similar kinds of rice grown on similar lands under exactly similar conditions need to be selected with very great judgment, if indeed the exact similarity of all the conditions can ever be established in any case.

11. *Soils.*—The chief soils of the area commanded by the canals are sand, clay, and loam, and mixtures of two or all three of these in various proportions. There are distinctive names for the ordinary combinations which every cultivator knows, but there are other names returned with the results of the various experiments which in different parts cover widely different proportions. Those concerning which there is doubt as to their composition I have not introduced into the following tables. The more common forms about which there can be little chance of error are the following:—

Sandy soils.

Bal	Chiefly sand.
Benga	Chiefly sand.
Balwat	Sand and loam, but more sand.
Balmat	Sand and loam, but more sand.
Balsunder ...	Sand and loam, but more sand.
Dhus	Clay and sand, sand predominating.

Clayey soils.

Kewal or Kerail ...	Chiefly clay.
Garmat	Clay and loam, but more clay.
Garwat	Clay and loam, but more clay.
Poura	Clay and sand.
Sigta	Clay and ashes.
Rekhour	Clay and ashes.

Loamy soils.

Doras or Dorsahi.

These names appear against 79 of the experiments upon regularly irrigated *aghani dhan* taken by Messrs. Burrows, Thomson and Mylne, the Sub-divisional Officers, and myself, and against 95 similar experiments reported by the canal subordinates. As in nearly all the former 79 the crops were weighed dry and are more trustworthy, I give the results separately from the latter 95 as follows:—

Analysis of soils upon which experiments on aghani dhan made by Messrs Burrows, Thomson and Mylne, *the Canal Sub-divisional Officers, and* H. Luson, Esq.

	Dhan.			Straw.		
	Number of experiments.	Average per acre		Number of experiments.	Average per acre.	
		Mds.	s.		Mds.	s.
Sandy soils.						
Bal, Benga	6	37	38$\frac{5}{6}$	6	50	28$\frac{5}{6}$
Balwat, Balmat, Balsunder	30	37	19$\frac{11}{15}$	30	49	26$\frac{5}{6}$
Dhus	8	29	37	8	41	23
Total ...	44	36	7$\frac{5}{44}$	44	48	9$\frac{41}{44}$
Clayey soils.						
Kewal or Kerail	16	34	15$\frac{7}{16}$	16	57	36$\frac{1}{3}$
Garwat	1	33	16	1	38	16
Poura	3	33	8$\frac{5}{9}$	3	60	15$\frac{5}{6}$
Sigta, Rekhour	3	30	10$\frac{1}{9}$	3	51	39$\frac{1}{6}$
Total ...	23	33	26$\frac{18}{23}$	23	56	24$\frac{17}{23}$
Loamy soils.						
Doras, Dorsahi	12	30	6$\frac{1}{4}$	12	53	5$\frac{7}{8}$

Analysis of soils upon which experiments on aghani dhan made by Canal Subordinates.

	Dhan.		Straw.	
	Number of experiments	Average per acre.	Number of experiments.	Average per acre.
		Mds s.		Mds. s.
Sandy soils.				
Bal, Benga	17	31 3 11/14*	17	57 28 4/5*
Balwat, Balmat, Balsunder	17	34 33 9/17*	17	57 25 1/3*
Dhus	10	34 0 12/24*	10	56 33*
Total ...	44	33 8 1/3*	44	57 20*
Clayey soils.				
Kewal or Kerail	13	31 11 1/4*	13	59 1 4/11*
Garwat, Garmat	2	22 36 2/3*	2	37 19 1/3*
Poura	17	29 17 11/12*	17	45 7 27/57*
Total ...	32	29 20 17/28*	32	51 0 5/16*
Loamy soils.				
Doras, Dorsahi	19	32 26 10/19*	19	56 0 8/57*

* All these figures have been reduced by the co-efficients given in paragraph 4 on account of the experiments having been made on wet crops.

From these tables it is clear that sandy soils are decidedly somewhat better for the cultivation of *dhan* than clayey soils: they would seem also to be better than loamy soils. These results are in accordance with the general opinion throughout these districts. They prove also that very good *dhan* can be grown upon clayey soils.

As the best crops have been selected for experiment, I have no doubt that the best lands only of each class grew them.

12. *Number of years canal water used upon the lands experimented upon.*—The remarks in this paragraph refer only to transplanted *aghani dhan*. Of the 25 experiments made by me, in 21 the fields were situated in long-leased areas. Messrs. Burrows, Thomson and Mylne do not state how long canal water had been used on the lands they experimented upon, but I know that nearly the whole of their zemindari in which canal water is taken is under long lease. Twenty-nine out of the 33 experiments by Sub-divisional Officers were made in long leased areas, and in 129 cases out of the 138 reported by the subordinates canal water had been taken on long lease.

In 23 out of my 25 cases canal water had been continuously taken for nine years or more. Of the remaining two, in one canal water had been used for three years, and in the other never before. The results of these two are slightly below the average of the 25.

The Sub-divisional Officers have noted the numbers of years of continual irrigation in 25 of their experiments. In six the lands had received canal water for 12 years, in one for 11 years, in two for 10 years, in one for 9 years, in one for 8 years, in five for 7 years, in six for 6 years, in one for 5 years, in two for 4 years, and in nine for less.

The subordinates have noted the periods of regular irrigation in 120 cases as follows:—Two for 14 years, fourteen for 12 years, three for 11 years, seventeen for 10 years, twenty-seven for 9 years, twelve for 8 years, thirteen for 7 years, seven for 6 years, thirteen for 5 years, three for 4 years, seven for 3 years, and two never before irrigated.

In fact the experiments upon transplanted *aghani dhan* have been taken generally upon lands continuously irrigated by canal water for a number of years, and it is therefore impossible from the returns to compare the results of the continued use of canal water with those for lands to which it has not before been applied.

13. *Various kinds of dhan.*—Innumerable varieties of dhan are grown in South Behar. A common saying runs रजपूत-ओ-धान-के-ओर-नाहिं-है (Rajput o dhan ke or nahin hai), "there is no limit to the classes of Rajputs or the kinds of *dhan*." Of the 197 experiments upon

canal irrigated transplanted *aghani dhan* before me, against which the names are recorded the following is an analysis :—

Name of rice (aghani).	Number of experiments.	Name of rice (aghani).	Number of experiments.
Branti	33	Selha	3
Dalangi	31	Srikhal	3
Basmati	22	Baitarna	2
Bataspheni	14	Kanakjira	2
Silhat	11	Kapsar	2
Laldohia	10	Dudh Karai	2
Sukhdas	9	Basanti	2
Maharajwa	6	Maghi	2
Gajmukta	5	Ramkara	2
Jarhan	5	Dolar	1
Mansinghia	5	Khajra	1
Nayan Das	5	Talbar	1
Batasa	4	Batasa	1
Shamjira	4	Rajmahli	1
Nadaura	3	Garura	1
Ramsal	3	Bansphal	1

14. *Rents.*—The rents of the fields experimented upon have been usually recorded except by Messrs. Burrows, Thomson and Mylne, who were not requested to do so.

The following figures represent the *nagdi* rates of rent per acre paid for the lands on which regularly irrigated *aghani dhan* was grown.

Of the 25 experiments made by myself upon this crop, in 20 nagdi rents were paid, and their average is Rs. 3-10$\frac{1}{3}$ a bigha, or Rs. 5-13$\frac{3}{5}$ an acre. The table below shows the rents in these 20 cases compared with the outturn. The figures represent the rent, exclusive of road cess, public work cess, *neg*, &c.—

Order in rent.	Rent per acre.		Outturn per acre.				Order in outturn of dhan.
			Dhan.		Straw.		
	Rs.	A.	Mds.	S.	Mds.	S.	
1	12	0*	33	24	37	24	13
2	8	0	41	16	51	8	2
3	8	0	34	0	48	32	11
4	8	0	29	4	55	8	16
5	7	8*	34	24	67	8	9
6	7	8	20	32	65	32	20
7	6	6$\frac{2}{5}$*	33	0	52	32	14
8	6	3$\frac{1}{5}$*	28	24	30	16	18
9	5	9$\frac{3}{5}$	29	0	28	4	17
10	5	7$\frac{1}{5}$	39	16	56	0	3
11	5	4*	37	12	43	8	5
12	5	4	35	36	53	32	7
13	4	12$\frac{4}{5}$*	34	8	62	16	10
14	4	8*	36	16	46	8	6
15	4	0	43	24	46	16	1
16	4	0*	39	0	43	16	4
17	4	0	27	0	38	8	19
18	3	12*	31	24	44	32	15
19	3	9$\frac{3}{5}$*	34	0	46	8	11
20	3	3$\frac{1}{5}$	35	24	36	32	8

The mark* means that *khesari* or some second crop was sown with the *dhan.*

It will be noticed that the rent does not correspond with the outturn. Indeed, throughout the whole circle rents do not vary exactly with the fertility of the soil or the outturn. As a rule Guzashtadars and Brahmin and Rajput ryots pay less than the lower classes. Some landlords are less grasping or know their interests less than others.

The Sub-divisional Officers recorded figures for rent in 31 cases ; but, except Mr. White, none state whether cesses are included. As sometimes the rent paid is inclusive of these and sometimes exclusive, the returns are not quite so accurate as mine. Nevertheless, the average is almost the same—Rs. 3-11$\frac{23}{31}$ a bigha, or Rs. 5-15$\frac{91}{155}$ an acre.

The subordinates recorded rents in 96 experiments. They too omit to note whether cesses are included ; thus—

	Number of experiments.	Average rent per acre.
		Rs. A
Buxar Division.		
Basawan sub-division	13	7 10$\frac{38}{65}$
Monoharpur ditto	22	5 3$\frac{21}{55}$
Sikraol ditto	Nil	......
Eastern Sone Division.		
Daodnagar sub-division	30	6 5$\frac{1}{2}\frac{9}{5}$
Bikram ditto	Nil	......
Arrah Division.		
Agiaon sub-division	6	6 0$\frac{8}{15}$
Nasriganj ditto	6	5 1$\frac{3}{5}$
Koath ditto	13	4 12$\frac{14}{65}$
Ramnagar ditto	6	4 9$\frac{1}{5}$
Total ..	96	5 10$\frac{7}{60}$

The total average, Rs. 5-10$\frac{7}{60}$ an acre, or Rs. 3-8$\frac{31}{60}$ a *bigha*, is almost the same as the results obtained by the Sub-divisonal Officers and myself.

15. In conclusion, I beg to observe that all the calculations have been made and verified by myself. As some of the returns were by *bighas* and some by acres, and as almost all the figures of the Canal Officers and subordinates had to be reduced on account of the crops not having been dried, this has been a work of some considerable labour. I deemed the subject too important to trust it to clerks.

HEWLING LUSON.

ARRAH,
The 4th February 1889.

APPENDIX No. 1.

The following figures are given showing the calculation of the co-efficients of shrinkage adopted in paragraph 4.

Dhan.—17 Experiments—

	Outturn per acre.			
	Wet.		Dry.	
	Mds.	seers.	Mds.	seers.
Mr. Maconchy, Executive Engineer ...	28	24	26	11
Mr. White, Assistant Engineer ...	28	16	27	8
	40	24	39	8
	54	0	50	15
	47	30	45	24
	35	8	33	0
	32	0	30	8
Subordinates	33	2	30	39½
	35	24	33	15
	45	32	43	24
	40	16	33	32
	33	24	28	32
	11	38	10	18½
H. Luson, Esq.	40	24	36	20
	42	28	40	20
	37	16	33	4
	30	32	29	28
	618	8	572	27
	572	27		
Difference ...	45	21 = 7·33 per cent. nearly		

The average of my own four experiments is 7·72 per cent., and in each case the *dhan* was conveyed short distances before being weighed. I have accordingly added one per cent. to the general average, and taken the shrinkage at 8·33 per cent. or $\frac{1}{12}$th.

Straw.—In 21 experiments I found the total weight of wet straw and *dhan* weighed together on the field decreased almost exactly 25 per cent on being perfectly dried. On the whole of my experiments, the proportion of dry *dhan* to dry straw is about as 7 : 10, and having, as found above, the shrinkage for *dhan*, we can calculate that for straw on 21 experiments thus—

If a = wet dhan, a^1 = dry dhan, b = wet straw, and b^1 = dry straw; then $\frac{a^1}{b^1} = \frac{7}{10}$; $\frac{a^1}{a} = \frac{11}{12}$ and $\frac{a^1 + b^1}{a + b} = \frac{3}{4}$; eliminating a^1 and a, $\frac{b^1}{b} = \frac{330}{496} = \frac{2}{3}$ almost exactly. Therefore the shrinkage for straw is 33·33 per cent., or ⅓rd.

APPENDIX No. 2.

The actual figures submitted by the Executive Engineers.

No. 4980, dated Beheea, the 14th December 1888.

From—MESSRS. BURROWS, THOMSON AND MYLNE,
To—The Superintending Engineer, Arrah.

WE forward herewith the results of 52 crop experiments, which show a very satisfactory outturn of paddy from canal-irrigated lands.

Only the best crops were selected, and it should be remembered that the season was peculiarly favourable, inasmuch as there was no blight.

We can vouch for the correctness of the experiments.

No. 4982, dated Beheea, the 19th Dcember 1888.

From—MESSRS. BURROWS, THOMSON AND MYLNE,
To—The Superintending Engineer, Sone Circle.

IN reference to the enquiry contained in your No. 5059, dated 18th instant, we have to state that the grain and straw were weighed when dry.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 30th March 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
BENGAL.		*Western Districts.*		
Burdwan Divn.	1	Burdwan , Mar. 30, '89	Nil	Weather - seasonable. Prospects of crops good. Rain wanted. Prices of rice have gone up at Raniguuge and Burdwan, but are stationary at Culna and Cutwa.
	2	Bankoora „ 30, '89	Nil	Weather—hot Standing crops—*khosta til*, indigo and cotton—doing well. Rain wanted for ploughing. Prices continue stationary.
	3	Birbhum „ 30, '89	Nil	Weather—hot; cloudy and cooler for last two days. *Rubbi* crops (except *til*) harvested; outturn about 12 annas. Rain wanted for *til* and for ploughing
	4	Midnapur „ 30, '89	Nil	Weather—close, and heavy clouds about. *Boro* crop promising in all sub-divisions.
	5	Hugli „ 30, '89 Serampur	Nil 0 03	Weather—seasonable. *Boro* rice, sugarcane and vegetables doing well.
		Howrah „ 30, '89	Nil	Weather—cloudy, but on the whole pleasant. *Boro* crop doing well
		Central Districts.		
Presidency Divn.	6	24-Pergħs. Mar. 30, '89	0·89	Weather—hot. Sky overcast. Manufacture of sugar continues Ploughing is going on. Rain much wanted.
	7	Nuddea „ 30, '89	Nil	Weather—hot and dry Cloudy towards end of week. Harvesting of *rubbi* nearly completed, outturn generally fair. Rain would be beneficial for ploughing operations.
	8	Khoolna „ 30, '89	0·14	Weather - hot. *Boro* paddy and *til* in good condition Rain wanted for ploughing.
	9	Jessore „ 30, '89 Magura Narail	0 07 0 38 0 24	Weather—hot and cloudy Rain badly wanted for cultivation. In the low lands *dhan* is being sown. Harvesting of *rubbi* crops over.
	10	Moorshedabad „ 30, '89	Nil	Weather—bright and hot till 28th, close and cloudy from 29th. Lands are being prepared for *aus*. *Rubbi* harvesting going on.
Rajshahye Divn.	11	Dinagepur „ 30, '89	Nil	Weather—warm, westerly winds have set in Sugarcane pressing not finished yet. Lands are being ploughed for *bhadoi* paddy and jute
	12	Rajshahye „ 30, '89	Nil	Weather—hot. Strong westerly wind. Cultivation of *boro* paddy going on Rain wanted Spring crops being reaped Rice selling at 17¼ seers per rupee. A hail storm has done some damage to the *ganja* crop in the Nowgong sub-division.
	13	Rungpur „ 30, '89	Nil	Weather—cloudy and cool. The young paddy is germinating, but rain is much wanted for its development. The winter crops are nearly all gathered in, and the land is being prepared for jute.
	14	Bogra „ 30, '89	Nil	Weather—high winds during day, dry heat, occasional clouds. Land is being ploughed for *aus* and jute Crushing of sugarcane still going on *Khesari*, *til* and *kaun* thriving well. Rain badly wanted Price of rice steady.
	15	Pubna „ 30, '89	Nil	Weather—hot and at times cloudy *Cheena* and barley are being reaped. *Boro dhan* is being sown. Rain wanted.
	16	Darjeeling „ 30, '89	Nil	Weather—windy but fine. State and prospects of crops favourable.
	17	Julpigoree „ 30, '89	Nil	Weather—days hot, mornings pleasant. Latter part of week cloudy. Harvesting of *rubbi* crops going on. *Bhadoi* sowings in progress. Rain much wanted. No change in prices.
		Eastern Districts.		
Dacca Divn.	18	Dacca Mar. 30, '89 Munshigunge ...	Nil 0 05	Weather—very hot. Cultivation of jute and *amun* and *aus* paddy going on. Mustard and pulses have been gathered. Damage to the standing crops is anticipated for want of rain. Rain also much needed for early sowings of paddy.
	19	Furreedpur „ 30, '89 Madaripur ...	0 06 0 20	Weather—cloudy. Lands have been prepared for *aus* and *amun* sowings. Rain much wanted.
	20	Backergunge „ 28, '89	0·05	Weather—very hot. Prospects of crops fair. Rain wanted.
	21	Mymensingh „ 29, '89 Netrokona	Nil 0·28	Weather—hot. State and prospects of crops fair, but rain is wanted in many places.
Chittagong Divn.	22	Chittagong April 1, '89	Nil	Weather—hot. Rain much wanted. Prices steady.
	23	Noakholly Mar. 29, '89 Fenny ...	0·15 2·70	Weather—warm, southerly wind. Harvesting of pulses almost completed. Sowing of *aus* commenced.
	24	Tipperah „ 28, '89 Brahmanberiah ... Chandpur ...	Nil 0 06 0 60	Weather—windy and warm. Hot in day-time and cool at night. *Kalai* and *sesamum* are being gathered; outturn expected to be fair. Land is being prepared for paddy and jute. Rain much wanted.
	25	Chittagong Hill „ 26, '89 Tracts.	0·60	Weather—foggy in the morning and sultry from noon to midnight *Jum* cutting nearly over. Tobacco and chillies doing well. Rain on the morning of 22nd has greatly improved the condition of the above crops.
		Hill Tipperah „ 28, '89	Nil	Weather—hot and windy. Prospects of *boro* paddy and chillies not favourable. Rain much wanted.

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.				
Patna Divn.				
26	Patna	Mar. 30, '89	Nil	Weather—hot. West wind prevailing. *Rubbi* crops are being harvested. Extraction of opium is nearly finished. In the Barh sub-division there has been a slight rise in the price of rice and some fall in the prices of other food-grains.
27	Gya	„ 30, '89	Nil	Weather—hot. Threshing of *rubbi* crops continues. Collection of opium practically completed.
28	Shahabad	„ 30, '89	Nil	Weather—hot with west wind. Harvesting of *rubbi* continues. Prices show a downward tendency.
29	Durbhunga	„ 30, '89	Nil	Weather—early part of week clear and bright, cloudy on 28th and 29th. Hot west winds. Harvest of *rubbi* in full swing and giving full occupation. Indigo sown and germinated well, but much attacked by caterpillars. Mango promises excellently. Prices slightly falling.
30	Mozufferpur	„ 30, '89	Nil	Weather—clouds gathering which give hope of rain shortly. Strong west winds throughout the week. *Rubbi* harvest continues with good results. *Cheena* and *mung* still doing well, but rain wanted for them in the north.
31	Sarun	„ 30, '89	Nil	Weather—hot. Sky overcast and gloomy during last two days. Wind variable, mostly from west. *Rubbi* harvest proceeding. Much damage done to the young indigo crop by caterpillars.
32	Chumparun	„ 30, '89	Nil	Weather—clear and warm, strong west wind prevailing. Extraction of opium and harvesting of *rubbi* almost finished. *Cheena* coming on well. Prices almost stationary.
Bhagulpore Divn.				
33	Monghyr	„ 30, '89	Nil	Weather—hot and seasonable, cloudy at times in the latter part of the week *Rubbi* harvest going on with an average outturn of 12 annas.
34	Bhagulpur	„ 30, '89	Nil	Weather—seasonable. *Rubbi* harvest continues. Yield of oilseeds 10 to 12 annas. *Mohwa* crop good at present. Sowings of *mung* and *dhan* in low lands continue.
35	Purneah	„ 30, '89	Nil	Weather—hot for time of year. *Rubbi* crops being cut. Sowings for *bhadoi* in progress.
36	Maldah	„ 30, '89	Nil	Weather—bright and clear; last two days cloudy. *Rubbi* harvest going on. Rain much wanted for *boro* paddy which is being watered by artificial means, and for cultivation of lands for *bhadoi* crops.
37	Sonthal Perghs.	„ 30, '89	Nil	Weather—hot with strong west winds, but latterly cloudy and still. *Mohwa* crop is turning out well. *Rubbi* crops being harvested, and prices, except of rice, falling. *Boro dhan* being transplanted.
ORISSA.				
Orissa Divn.				
38	Cuttack	„ 29, '89	Nil	Weather—hot and seasonable. *Dalua* rice is being reaped in some places. Rain much wanted for ploughing. Price of rice stationary.
39	Pooree	„ 28, '89	Nil	Weather—hot. Rain wanted for ploughing lands for ensuing rice crops. *Mung* and *kulthi* being gathered. Common rice 17 seers 12 chittacks per rupee in the Sudder sub-division and 17 seers 4 chittacks in the Khoordah sub-division.
40	Balasore	„ 29, '89	Nil	Weather—days hot, nights cool. *Dalua* rice is being harvested. Rain much wanted for cultivation.
CHOTA NAGPORE.				
South-West Frontier Agency.				
Chota Nagpore Divn.				
41	Hazaribagh	Mar. 29, '89	0·10	Weather—seasonable, though somewhat unsettled. Very cloudy to-day (29th). Harvesting of *rubbi* crops nearly over; outturn from 6 to 12 annas. Prospects of mango very indifferent. *Mohwa* doing well, and prospects so far good. Prices stationary.
42	Lohardugga Palumow	„ 30, '89 ...	Nil 0·07	Weather—unsettled at head-quarters. Three storms visited the sub-division, where rain and hail much damaged the *mohwa* crop. Prices of food-grains fluctuating and have a tendency to rise.
43	Singbhoom	„ 29, '89	Nil	Weather—cloudy and oppressive. *Rubbi* crops nearly all harvested. Outturn varies from 6 to 12 annas.
44	Manbhoom	„ 30, '89	Nil	Weather—hot and cloudy. *Rubbi* crops ripening. *Mohwa* falling; outturn estimated at 8 annas. Price of rice rising.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 2nd April 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 24th to 30th March 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
March	24th	147·3	9·5	29 853	81·5	92·0	21·5	70·5	76 5	0 817	74 2	80	SSW and WSW ...	94	0·62	Chiefly cloudy, o, g, d, t, p, <, K, ▲.
,,	25th	149·5	8·1	·894	83·0	93 5	19·8	73·7	77·5	·871	75 0	79	WSW and SW ..	69	Nil	Chiefly cloudy, o
,,	26th	148 5	8 7	·846	84 3	96 2	21·0	75·2	77·6	850	74 6	75	SW and SW by S	199	,,	Partially cloudy, ⌓.
,,	27th	150·7	10·0	·741	85 9	98·3	23·3	75·0	75·8	·757	70 9	62	SW and SSW ..	117	,,	Partially cloudy, ⌓.
,,	28th	145 6	9 5	·787	85 3	94 9	18 3	76 6	76·7	·804	72 6	68	SW by W & variable	96	,,	Partially cloudy
,,	29th	145 5	6 5	·823	81 7	93 4	17·2	76 2	78 1	·889	75 7	76	WSW and SSW ..	76	,,	Chiefly cloudy, ⌓.
,,	30th	139 3	Nil	·787	82 6	91 4	13·0	78 4	76·1	·818	73·2	74	WSW and calm	72	,,	Cloudy, o, g

	Inches
The mean pressure of the seven days	29·819
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29 774
	Hours.
The total number of hours of bright sunshine	52 3
The maximum possible number of hours of sunshine	85 5
	°
The mean temperature of the seven days	83 9
The average temperature of the corresponding period for 24 years, S. G.'s Office	83·5
The extreme variation of temperature	27 8
The maximum temperature	98 3
	Miles
The highest velocity of the wind in one hour	9
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	3
	%
The mean relative humidity	74
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	66
	Inches
The total fall of rain from 24th to 30th March 1889	0·62
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0 20
The total fall from 1st January to 30th March 1889	3·54
The average fall of the corresponding period for 24 years, S. G.'s Office ...	2 77

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, < lightning, K thunderstorm ▲ hail, ⌓ dew.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 1st April 1889.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·902	29·914		SW	315	86·2	28th March	77·6	25th & 26th March	87·4	78·6	83·0	—	81·0
		Gopalpore	29·880	29·939	+·038	SW	497	87·2	28th "	76·8	23rd "	86·2	79·2	82·7	+2·5	81·6
		False Point	29·806	29·918	+·012	SW	353	89·5	28th "	75·1	25th "	87·9	77·3	82·6	+0·7	81·7
	Cuttack	Cuttack	29·849	29·932	+·041	SSW	94	107·4	28th "	73·8	23rd "	103·4	76·9	90·2	+3·3	81·2
	Balasore	Balasore	29·853	29·914	+·020	SW	209·1	103·5	28th "	69·9	23rd "	97·9	74·3	86·1	+4·0	78·6
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·896	29·923	+·028	SSW	442	92·2	28th "	78·5	23rd & 26th March	89·8	79·3	84·6	+1·3	81·5
	Midnapore	Midnapore	29·763	29·915	+·028	S	89·2	106·4	28th "	70·7	23rd "	102·0	74·4	88·3	+3·9	81·0
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·891	29·913	+·025	SW	96	98·4	28th "	70·7	24th "	94·8	74·1	84·5	+2·0	78·9
	Burdwan	Burdwan	29·801	29·902	+·019	S	69·2	103·2	28th "	72·4	28th "	100·6	74·8	87·7	+3·9	80·1
	Bankoora	Bankoora	29·594	29·898	—	Calm	84	104·4	28th "	71·6	25th "	101·7	73·7	87·7	—	80·7
	Beerbhoom, West Burdwan	Raneegunge	29·577	29·888	+·042	W	66·4	101·5	28th "	69·9	25th "	101·2	73·1	87·2	+3·0	81·4
	Moorshedabad	Berhampore	29·832	29·900	+·022	S	115·1	102·9	28th "	66·2	25th "	100·1	70·4	85·2	+2·2	78·7
	Nuddea	Krishnaghur	29·858	29·925	+·050	South-Westerly	124·3	102·8	28th "	71·4	28th "	99·3	73·5	86·4	+4·6	81·3
	Jessore, Khoolna	Jessore	29·882	29·916	+·022	SW	71·9	103·3	28th "	72·9	25th "	98·4	75·5	86·9	+3·6	80·7
East Bengal.	Chittagong	Chittagong	29·881	29·972	+·026	South-Easterly	140·2	91·7	26th "	69·0	25th "	88·5	73·0	80·8	+1·9	77·3
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·913	29·925	+·031	S & SSW	150·6	97·3	28th March	73·9	25th "	92·9	75·0	84·4	+4·1	79·6
	Noakholly	Noakholly	29·894	29·937	+·016	southerly	166·2*	89·0*	28th "	68·6*	23rd "	87·2*	73·5*	80·4*	+2·1	80·0*
	Furreedpore	Furreedpore	29·882	29·922	+·005	SW	130	101·0	28th "	68·9	23rd "	90·4	72·3	81·4	+1·7	78·7
	Dacca	Dacca	29·890	29·913	+·017	S	127·2	102·0	28th "	69·7	25th "	96·9	73·9	85·4	+3·8	8[illegible]·4
	Commillah	Commillah	29·900	29·996	+·079	S	196·6	96·3	28th "	67·[illegible]	25th "	93·3	73·0	83·1	+3·0	78·3
	Mymensingh	Mymensingh	29·848	29·907	+·001	SE	181·4	99·5	28th "	67·6	23rd "	95·[illegible]	71·2	83·3	+5·6	76·9
North Bengal.	Bogra	Bogra	29·801	29·866	+·006	Variable	179·9	102·3	27th & 28th March	66·8	26th "	99·4	69·4	84·4	+4·1	78,1
	Pubna	Serajgunge	29·135	29·883	0	southerly	90·8	102·0	28th "	66·6	26th "	98·7	69·4	84·1	+4·8	78·1
	Rajshahye	Rampore Beauleah.	29·815	29·886	+·016	Southerly	131·7	100·8	27th & 28th March	68·5	25th "	98·1	70·8	84·5	+3·8	79·0
	Maldah	Maldah	29·79[illegible]	29·881	—	Variable	114·6	100·1	28th "	62·4	25th "	98·[illegible]	60·2	82·4	—	81·3
	Dinagepore	Dinagepore	29·756	29·878	+·011	South-Easterly	147	98·1	28th "	61·7	29th "	95·4	66·4	80·9	+1·7	75·1
	Rungpore	Rungpore	29·774	29·902	+·049	ESE	124	95·4	28th "	58·7	29th "	93·0	65·3	79·1	+1·8	73·4
	Julpigoree, Cooch Behar	Julpigoree	29·605	29·900	+·042	E	82·8	91·0	23rd & 28th March	55·9	23rd "	88·0	60·9	74·5	+0·5	71·6
	Darjeeling Hill Tracts	Darjeeling	22·991	—	+·050	Calm	266·6	63·1	29th "	43·5	24th "	60·5	46·7	53·6	0	53·4
North Behar.	Purneah, North Bhagulpore	Purneah	29·751	29·880	+·009	North-Easterly	113·4	98·3	29th "	60·5	23rd "	95·4	65·4	80·5	+1·0	75·7
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·701	29·872	+·004	WSW	175	95·2	28th March	65·9	28th "	92·1	69·0	81·0	+1·9	76·4
	Chumparun	Motihari	29·602	29·894	+·049	Variable	264	97·8	28th "	57·9	24th "	95·3	61·0	78·2	+0·4	78·0
	Sarun	Chupra	Complete observation not at hand.													
South Behar.	Shahabad	Dehree	29·552*	29·910*	-·045*	South-Westerly	211·3*	100·9*	27th March	69·5	23rd "	98·6	74·0	86·3	+4·5	82·6
		Buxar	29·650	29·896	+·037	WSW	181·2	99·4	27th "	66·3	23rd "	96·6	69·7	83·2	+2·3	78·8
		Arrah	29·688	29·889	+·057	WSW	101·7	101·2	27th "	66·1	25th "	98·3	68·6	83·5	+1·7	78·8
	Gya	Gya	29·540	29·9[illegible]3	+·056	Calm	140·2	100·5	27th "	67·7	23rd "	98·0	72·3	85·2	+1·0	80·8
	Patna	Bankipore	29·699	29·886	+·021	SW	113·5	101·5	27th "	66·5	25th "	98·4	69·6	84·0	+2·6	79·[illegible]
	South Bhagulpore, Monghyr	Bhagulpore	29·704	29·868	+·022	W	144·0	99·3	27th "	65·0	25th "	96·5	69·4	83·0	+2·3	78·1
	Sonthal Pergunnahs	Doomka	29·398	29·899	+·077	Calm	136·8[illegible]	101·4	28th "	67·4	23rd & 25th March	99·2	70·8	85·0	+2·2	84·5
Chota Nagpore.	Hazaribagh	Hazaribagh	27·918	29·925	+·054	Calm	229·3	96·0	27th "	67·1	23rd "	93·7	70·5	82·1	+2·4	80·3
	Lohardugga, Manbhoom	Ranchee	27·783	29·911	+·036	Calm	141·2	96·[illegible]	27th "	65·1	23rd "	94·4	69·6	82·0	+2·7	78·8
	Singhbhoom	Chyebassa	29·147	29·916	+·045	SSW	32·5	104·6	28th "	68·6	25th "	102·2	72·6	87·4	+2·2	82·2

* Mean for six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

[F]or the week ending Friday, the 29th of March 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
88	3·9	—	Nil	0·21	0 02	0·76	−0 74	44·77	57 27	−12 50	0·0	0·6	Pooree	Pooree	ORISSA.
81	1 6	0·02	—	—	—	—	—	—	—	—	—	—	Gopalpore		
88	6·1	—	—	—	—	—	—	—	—	—	—	—	False Point		
78	3·6	—	Nil	0·24	0·03	1·11	−1·08	53·14	53 91	−0·77	0 0	0 6	Cuttack	Cuttack	
87	0	—	Nil	0·37	0 46	1·21	−0·75	54·71	55 58	−0·87	0·0	0 7	Balasore	Balasore	
83	5·0	—	Nil	0·47	0·06	1·19	−1·13	56 75	64·96	−8·21	0·0	0·8	Saugor Island	South-West Midnapore; South 24-Pergunnahs	SOUTH-WEST BENGAL.
62	2·0	—	Nil	0·26	0·01	1 47	−1·46	65·27	54 04	+11·23	0 0	0 7	Midnapore	Midnapore	
87	8·3	0·47	0·14	0·27	0 54	1·28	−0·04	65·10	54 19	+10·91	0·5	0·8	Calcutta	24-Pergunnahs...; Howrah ... ...; Hooghly ...	
73	2·1	—	Nil	0 40	0·30	1 24	−0 94	56 92	48 97	+7 95	0·0	0 9	Burdwan	Burdwan	
60	1 7	—	Nil	0·37	0 62	1·13	−0·[illegible]	54·02	54 08	−0·06	0 0	0 8	Bankoora	Bankoora	
48	0	—	Nil	0·16	0·76	0 57	+0·19	59 68	53 15	+6 53	0 0	0·6	Raneegunge	Beerbhoom ... ..; West Burdwan ..	
71	4·4	—	Nil	0·35	0 26	0·85	−0 59	49 90	52·20	−2·24	0 0	0·	Berhampore	Moorshedabad ..	
75	2·0	—	Nil	0·63	0·82	1 63	−0 81	56 23	51 80	+4·43	0 0	1·0	Krishnaghur	Nuddea	
80	2·9	—	0 10	0·71	0·73	2 01	−1 28	45 85	56 36	−10·51	0 5	1·2	Jessore	Jessore ... ..; Khoolna	
85	5·7	0 07	0 03	0·49	0 63	1 82	−1 19	127 10	116·36	+10·74	0 5	1·1	Chittagong	Chittagong	EAST BENGAL.
			0·25	0 88	0 71	2·59	−2 88	74·41	85·13	−10 72	0 5	1 2	Demagiri	Chittagong Hill Tracts	
87	4·3	—	0·06	0·56	0 44	1 92	−1·48	73·96	80·02	−6·06	0 8	1·1	Barrisal	Backergunge ..	
82*	5·3*	0 16*	0 23	1·10	3 11	3 50	−0·39	110 37	111 73	−1·36	1 0	1·1	Noakholly	Noakholly	
85	0	0·36	0·16	0·74	0·24	2 53	−2·29	48 66	59 81	−11·15	1 0	1·2	Furreedpore	Furreedpore	
81	3·9	—	Nil	1·21	0·05	3·01	−2·96	56 78	64·04	−7·26	0 0	1 5	Dacca	Dacca	
68	3·4	—	0 02	1·09	0 27	3·81	−3·54	63·30	74 19	−10·89	0·2	1 3	Commillah	Tipperah	
82	5·0	—	0·06	0·53	0·07	2 07	−2 00	67 64	70 52	−2 78	0 2	1 2	Mymensingh	Mymensingh	
70	0	—	Nil	0 53	0·02	1 05	−1·03	46·47	59·07	−12·6[illegible]	0 0	1·0	Bogra	Bogra	NORTH BENGAL.
84	3·0	—	Nil	0·45	0·02	1·39	−1·37	42 49	55·85	−13·36	0 0	1·0	Serajgunge	Pubna	
65	0·7	—	Nil	0 37	0·03	0 83	−0 80	47 04	55 55	−7 61	0 0	0·7	Rampore Beauleah	Rajshahye	
52	1·1	—	Nil	0 16	0 02	0·52	−0·50	43 85	55·34	−11·49	0·0	0·5	Maldah	Maldah	
65	0·7	0	Nil	0·29	0·02	0 61	−0 59	49·52	58 49	−8 97	0·0	0 7	Dinagepore	Dinagepore	
74	1 4	—	Nil	0 52	0 17	1·32	−1·15	59·40	75·59	−16 19	0 0	0·9	Rungpore	Rungpore	
72	0	—	Nil	0·84	0·39	1·71	−1·32	90 34	113 25	−22·91	0 0	1·0	Julpigoree	Julpigoree ... .; Cooch Behar	
73	2·9	—	0·03	0 91	2 63	1·84	+0·79	105·17	123 83	−18·66	0 3	1 5	Darjeeling	Darjeeling Hill Tracts	
66	1·1	—	Nil	0·14	Nil	0·44	−0·44	51·29	59 60	−8 31	0 0	0 4	Purneah	Purneah ... .; North Bhagulpore .	NORTH BEHAR.
			Nil	0·07	0 10	0·42	−0·32	43·97	44 38	−0 41	0·0	0 3	Mozufferpore	Mozufferpore	
55	1·6	—	Nil	0·03	0·06	0·30	−0 24	43 20	45 42	−2 22	0 0	0 2	Durbhunga	Durbhunga	
46	2·6*	—	Nil	0·04	0·09	0 37	−0 28	44·81	47 56	−2·75	0·0	0 2	Motihari	Chumparun	
			Nil	0·05	0·30	0·20	+0 10	41 68	43·59	−1·91	0 0	0·3	Chupra	Sarun	
32	1·7	—											Dehree		SOUTH BEHAR.
34	3·0	—	Nil	0·02	0·67	0·37	+0 30	44·42	40·70	+3·63	0·0	0·2	Buxar	Shahabad	
39	1·9	—											Arrah		
41	3·4	—	Nil	0 04	0·42	0·35	+0·07	52·87	42 43	+10 41	0·0	0 2	Gya	Gya	
39	3·7	—	Nil	0·04	0 17	0·28	−0 11	51 21	42 02	+9 10	0 0	0·3	Bankipore	Patna	
44	2·8	—	Nil	0·04	0 08	0 28	−0·20	52 38	44·02	+8·36	0 0	0·2	Bhagulpore	South Bhagulpore ...; Monghyr ...	
32	0	—	Nil	0 07	0·16	0·51	−0 35	55·38	51·78	+3·60	0·0	0 3	Doomka	Sonthal Pergunnahs ..	
29	3·1	—	Nil	0·07	0·57	0 85	−0 28	58 70	51 8[illegible]	+6 91	0 0	0·3	Hazaribagh	Hazaribagh .. .	CHOTA NAGPORE.
45	1·4	—	Nil	0·07	0·53	0 75	−0 22	52·30	50·50	+1 80	0·0	0·4	Ranchi	Lohardugga	
			Nil	0·12	0·33	0 75	−0·42	48·14	48·05	−0·51	0·0	0·4	Ranchi	Manbhoom	
39	1·6	—	Nil	0·12	0 32	1·14	−0 72	41·30	53 43	−12 1[illegible]	0·0	0 5	Chyebassa	Singbhoom	

[Th]e variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
[De]noting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
[...]rs. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of March 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 23rd March 1889.	Sunday, 24th March.	Monday, 25th March.	Tuesday, 26th March.	Wednesday, 27th March.	Thursday, 28th March.	Friday, 29th March.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·47	41·24	52·60
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	0·07	0·79	44·55	57·90
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·79	37·00	53·29
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·97	50·28	66·57
		Gop ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Pipli ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·80	53·64	48·46
		Banki ..	...	...	...	...	...	...	...	Nil	Nil	0·02	1·47	45·05	52·89
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil		1·23		58·28
		Kendrapara ...	...	...	...	...	...	...	...	Nil	Nil	0·01	0·86	46·60	54·99
		Jajpore ...	...	...	...	...	...	...	...	Nil	Nil	0·10	1·14	62·40	56·41
		Dharmsala	...	...	...	...	...	...	...	Nil	Nil	0·25	?	57·73	?
		Satspura .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Balasore ..	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	0·30	1·05	53·15	54·31
		Bhuddruck .	...	...	...	...	...	...	...	Nil	Nil	1·61	1·31	51·00	54·32
		Soroh ..	...	...	...	...	...	...	...	Nil	Nil	0·67	1·55	51·89	53·48
		Balasore ..	...	...	...	...	...	...	...	Nil	Nil		1·32		60·44
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	0·08	0·92	56·99	54·78
		Baripodah ..	...	...	...	...	...	...	...	Nil	Nil	0·09	1·11	56·15	55·59
SOUTH-WEST BENGAL.	Midnapore .	Contai	...	...	...	...	...	...	...	Nil	Nil	0·16	0·94	52·64	63·51
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	1·24	53·60	69·50
		Tumlook	...	...	...	...	...	...	...	Nil	Nil	Nil	1·67	67·20	54·00
		Midnapore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·37	70·22	51·15
		Ghattal	...	...	...	...	...	...	...	Nil	Nil	0·03	1·36	58·39	56·80
		Kukrahaty .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	67·31	?
		Herta ..	...	...	...	...	...	...	...	Nil	Nil	0·15	?	55·96	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	0·15	?	56·18	?
		Garbeta .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	0·03	1·40	59·00	61·61
		Canning Town	0·18	0·04	...	...	...	...	...	2	0·22	0·22	?	57·58	?
		Alipore Jail .	...	0·36	0·27	0·26	...	...	...	3	0·89	1·16	1·46	65·98	58·50
		Barrackpore..	...	...	...	...	...	...	...	Nil	Nil	0·31	1·38	63·49	50·86
		Dum-Dum	...	...	0·09	...	...	...	...	1	0·09	1·06	1·35	67·62	54·19
		Baraset	...	...	...	...	...	...	...	Nil	Nil	0·36	1·25	67·84	51·79
		Buseerhat ..	...	...	...	...	...	...	...	Nil	Nil	0·29	1·95	53·33	57·43
	Howrah ..	Howrah	...	0·41	...	...	...	...	...	1	0·41	0·98	1·28	69·33	54·47
		Mohesrekha (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	0·24	1·02	62·97	54·45
	Hooghly .	Serampore ...	...	...	...	...	...	...	...	Nil	Nil	0·32	0·95	68·92	52·28
		Hooghly ..	...	...	...	...	...	...	...	Nil	Nil	0·2[illegible]	1·06	68·11	56·41
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	0·47	1·08	63·35	57·39
	Burdwan ..	Culna ..	...	...	...	...	...	...	...	Nil	Nil	0·31	1·27	61·68	46·58
		Burdwan ..	...	...	...	...	...	...	...	Nil	Nil	0·16	1·82	47·47	49·98
		Cutwa ..	...	...	...	...	...	...	...	Nil	Nil	0·44	1·11	61·71	50·05
		Raneegunge ..	...	...	...	...	...	...	...	Nil	Nil	0·48	0·61	59·32	50·28
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	0·19	?	44·80	?
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	Nil	Nil	0·57	1·24	50·06	53·41
		Bishenpore ...	...	...	...	...	...	...	...	Nil	Nil	1·68	1·31	57·33	53·50
		Maharra ..	...	...	...	...	...	...	...	Nil	Nil	0·24	0·70	51·95	53·16
		Khatra ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·28	56·69	55·98
		Indas ..	...	...	...	...	...	...	...	Nil	Nil	0·27	?	42·21	?
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	0·62	?	50·18	?
		Anda	...	...	...	...	...	...	...	Nil	Nil	0·50	?	39·51	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	0·23	?	58·26	?
		Raipore ..	...	...	...	...	...	...	...	Nil	Nil	0·45	?	56·35	?
		Sonamukhi ..	...	...	...	...	...	...	...	Nil	Nil	1·12	?	47·92	?
	Beerbhoom	Sh. Soory .	...	...	...	...	...	...	...	Nil	Nil	0·53	0·62	56·07	55·23
		Hetampore .	...	...	...	...	...	...	...	Nil	Nil	0·41	0·41	49·82	55·65
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	1·59	0·61	73·47	52·88
		Hotpore	...	...	...	...	...	...	...	Nil	Nil	0·40	?	64·22	?
		Murarai .											?		?
	Nuddea ...	Ranaghat .	...	...	...	...	...	...	...	Nil	Nil	0·49	1·41	65·15	49·36
		Kishnaghur .	...	...	...	...	...	...	...	Nil	Nil	0·44	1·42	70·37	48·20
		Chooadanga .	...	...	...	...	...	...	...	Nil	Nil	0·95	1·60	54·92	53·73
		Meherpore ..	...	...	...	...	...	...	...	Nil	Nil	2·21	1·99	53·13	50·52
		Kooshtea .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·75	37·50	57·22
	Khoolna ..	Satkhira ...	...	...	...	...	...	...	...	Nil	Nil	1·55	2·29	41·58	58·27
		Bagirhat ...	...	...	...	...	...	...	...	Nil	Nil	0·57	1·69	52·01	64·52
		Khoolna ...	...	...	0·14	...	...	...	...	1	0·14	0·64	1·98	49·84	58·01
	Jessore ..	Narail ..	0·24	...	...	...	...	...	...	1	0·24	0·83	1·79	32·55	49·09
		Jessore ...	...	0·07	...	...	...	...	...	1	0·07	0·91	2·42	58·21	57·88
		Jhenidah ...	...	...	...	...	...	...	...	Nil	Nil	0·15	2·10	37·09	58·64
		Magoorah ...	0·58	...	...	...	...	...	...	1	0·38	0·57	2·19	44·50	51·58
		Bongong ..	...	...	...	...	...	...	...	Nil	Nil	0·57	1·54	50·92	54·41
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	Nil	Nil	0·84	0·90	53·40	51·87
		Berhampore ..	...	...	...	...	...	...	...	Nil	Nil	0·29	0·93	43·62	53·24
		Lalbagh ..	...	...	...	...	...	...	...	Nil	Nil	0·19	0·90	49·11	52·47
		Azimgunge ...											0·85	?	52·76
		Jungipore ..	...	...	...	...	...	...	...	Nil	Nil	0·06	0·64	49·51	50·44
		Lalgola ..	...	...	...	...	...	...	...	Nil	Nil	0·06	0·84	54·29	52·70
		Jiagunge ...	...	...	...	...	...	...	...	Nil	Nil	0·14	?	49·40	?
		Akhrigunj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·08	?
		Patkabari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44·29	?
EAST BENGAL	Chittagong ..	Cox's Bazar ..	...	...	...	...	...	...	...	Nil	Nil	0·56	1·55	147·50	185·88
		Chittagong ...	0·06	...	...	...	...	...	...	1	0·06	0·58	2·07	106·56	96·99
		Kutubdia ...	...	...	...	...	...	...	...	Nil	Nil	0·30	?	117·82	?
		Satkania ...	...	...	...	...	...	...	...	Nil	Nil	0·65	?	92·32	?
	Chittagong Hill Tracts.	Rangamati ...	0·50	...	...	...	...	...	...	1	0·50	0·72	2·80	77·11	87·60
		Ruma ...	...	...	...	...	...	...	...	Nil	Nil	0·70	2·41	71·69	81·64
	Backergunge	Patuakhally ..	...	...	...	...	...	...	...	Nil	Nil	0·35	1·04	88·62	90·32
		Perozepore .	...	...	...	...	...	...	...	Nil	Nil	0·27	1·45	62·58	72·84
		Burrisal ..	...	...	...	...	...	...	...	Nil	Nil	0·78	2·40	68·22	71·16
		Bhola ...	0·23	...	...	...	...	...	...	1	0·23	0·66	2·20	70·69	84·54

Statement of Rainfall in Bengal for the week ending Friday (6 p m.), the 29th of March 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 23rd March.	Sunday, 24th March.	Monday, 25th March.	Tuesday, 26th March.	Wednesday, 27th March.	Thursday, 28th March.	Friday, 29th March.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi* ..	...	...	...	...	...		...	Nil	Nil	1·00	?	51 83	?
		Bauphal ..	...	...	...	...	...	...	...	Nil	Nil	0 26	?	99 77	?
	Noakholly	Noakholly	0·15	...	...	...	...	...	...	1	0·15	2·75	3 39	111 29	112 10
		Fenny .	0 30	...		...	...	...	...	1	0·30	3 45	3 60	109 43	111 30
		Harishpore ...	...	...	...	...	...	...	...	Nil	Nil	0 55	?	131 21	-
		Ramganj ..	...	...	...	...	...	...	...	Nil	Nil	0 67	?	90 61	?
	Furreedpore	Madaripore ..	...		...	...	...	...	...	Nil	Nil	0·26	2·67	47 03	59 50
		Furreedpore..	0·30	0·06	...	...	...	...	...	2	0 36	0·36	2 74	54 69	60 38
		Goalundo .	0·11	...	...	...	...	...	...	1	0 11	0 19	2·19	45 36	56 32
	Dacca ...	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0·09	3 93	61 77	75 40
		Dacca .	...	...	...	...	...	...	...	Nil	Nil	0·11	2 91	58 80	62·42
		Narainganj	...	...	...	...	...	...	...	Nil	Nil	0 03	3 36	63 96	64 15
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	1 87	47 63	53 04
		Joydebpore .	...	...	...	...	...		...	Nil	Nil	0·01	?	59 50	-
	Hill Tipperah	Agartola ..	...	...	...	...	...	...	...	Nil	Nil	Nil	4 19	54 42	66 87
	Tipperah	Comilla ..	...	...	...	...	...	...	...	Nil	Nil	Nil	3 39	70 17	80 28
		Chandpore .	...	...	...		...	...	...	Nil	Nil	0 90	1 17	56 17	81 99
		Brahmunberia	...	0·06	...	...	...	...	...	1	0·06	0 12	4 46	70 25	67 01
		Ramchandrapore.	...	0 05	...	...	...	...	...	1	0·05	0 05	?	60 86	?
		Nasirnagar ..	...	...	...	...	...	...		Nil	Nil	0 30	?	59 29	?
		Daudkandi	...	...	...		...	...	...	Nil	Nil	0 05	?	64 24	?
		Kasba .	...	...	...	...	...	...	...	Nil	Nil	0 44	?	57 09	-
		Laksham	...	...	...	...	...	...	...	Nil	Nil	1 10	?	81·41	-
	Mymensingh..	Kishoreganj		...	...	...	...	...	...	Nil	Nil	Nil	2·73	83 53	73 67
		Atia (*Tangail*)	...	...	...			...	...	Nil	Nil	Nil	1 40	39 12	58 00
		Mymensingh	...	...		...		...	...	Nil	Nil	0 05	2 07	70 07	76 94
		Jamalpore	...	...				...	...	Nil	Nil	Nil	1 41	68 98	67·64
		Netrokona		...	...	0 28		...		1	0 28	0 28	2 73	77 97	75 01
		Subornakhally	...	...	...	...		...	...	Nil	Nil	0 03	?	61 17	-
		Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	110 01	-
		Sherepore town		...	...	...	...		...	Nil	Nil	Nil	-		-
		Dewanganj	...	...	...	...	...	...		Nil	Nil	Nil	?	55 76	-
NORTH BENGAL.	Pubna	Pubna ...	...	...	...	...	...	...	...	Nil	Nil	0·04	1 61	40 87	56 53
		Serajgunge .	...	...	...		...	...	...	Nil	Nil	Nil	1 15	44 09	55 03
	Bogra	Sherpore ...	...	...	...	...	...	...	...	Nil	Nil	0 03	1 41	4? 73	60 10
		Nowkhilla ...	...	...	...		...	...		Nil	Nil	0 05	1 13	51 87	57 06
		Bogra ...	...	...			...	...		Nil	Nil	Nil	0·80	43 31	62 24
		Panchbibi .	...	...	...	...	...	...		Nil	Nil	Nil	0 85	46 99	57 14
	Rajshahye	Beauleah .	...	...		...			...	Nil	Nil	0·06	0 75	34 92	54 44
		Nattore .	...	...		...		...	...	Nil	Nil	Nil	0 88	61 98	56 70
		Naogaon .	...	...				...	...	Nil	Nil	Nil	?	39 65	
		Lalpore ...	...	...	...		...			Nil	Nil	Nil	?	40 05	
		Manda .	...	...		...				Nil	Nil	Nil	?	52 84	
	Maldah ..	Maldah	...	...	...		...	...	...	Nil	Nil	Nil	0 67	51 85	52 91
		Chanchal ..		...				...		Nil	Nil	0 03	0 36	35 79	57 70
		Gajol ..	...	...		...	...			Nil	Nil	Nil	?	40 54	-
		Sibganj ..	...	...	...	...			...	Nil	Nil	0 07	?	48 75	?
	Dinagepore ...	Mohadebpore	...		...		...	...	...	Nil	Nil	0·04	0 77	41 24	59 77
		Churamon	...	...	...		...			Nil	Nil	Nil	0 39	50 79	53 94
		Raigunge	...	...		...		...		Nil	Nil	0 02	0 41	53 66	60 22
		Dinagepore	...	...			...			Nil	Nil	Nil	0 86	59 79	65 36
		Baloorghat	...	...		...	...		...	Nil	Nil	Nil	0 63	42 13	54 47
		Thakoorgaon	...	...	...		...		...	Nil	Nil	0·20	-	53 22	-
	Rungpore	Bhawanigunge (*Gyabanda*)	...		...	...	...	...	...	Nil	Nil	Nil	1 43	48 55	64 53
		Rungpore ...	...	...	...			...		Nil	Nil	0 10	1 16	55 70	76 18
		Kurigram .	...	...	...	...				Nil	Nil	0 25	1 69	76 76	75 54
		Bagdogra (*Nilphamari*).	...	...					...	Nil	Nil	0 02	1 04	56 48	80 76
		Ulipore	...	...	...	...				Nil	Nil	0 6?	?	57 33	-
	Julpigoree ..	Julpigoree .	...	...	...	...	...			Nil	Nil	Nil	1·62	107 10	110 60
		Alipore Doar	...	...	...	...	...	...	...	Nil	Nil	3 14	?	85 58	?
		Fallacotta .	...	...		...				Nil	Nil	0 45	?	93 02	?
		Debiganj .	...	...				...		Nil	Nil	Nil	?	64 28	?
		Bhogolpore (Nagrakatta).	...	...	...					Nil	Nil	2 31	?	?	-
	Cooch Behar	Dinhatta	...	...	...	...	...			Nil	Nil	0 56	1·68	93·61	95 08
		Cooch Behar .	...	...	...		...			Nil	Nil	0 15	1·60	94 58	120 41
		Mekligunge	...	...				...		Nil	Nil	0 12	1 41	79 07	109 90
		Mathabhanga	...			...				Nil	Nil	1 11	2 25	77 32	119 38
	Darjeeling Hill.	Buxa		...			0·10			1	0 10	6 2?	2 73	166 54	196 40
		Silliguri .	...			...				Nil	Nil	2 08	1·40	86 71	105 25
		Darjeeling ...	...	...		...			...	Nil	Nil	0 39	1 77	93 06	111 30
		Kalimpong .	...	...						Nil	Nil	1·77	1 43	74 30	85 61
NORTH BEHAR	Purneah ...	Kissengunge.	...	...	...	...			...	Nil	Nil	Nil	0 59	49 56	71 54
		Arrareah .	...	...	...		...		...	Nil	Nil	Nil	0 55	65 17	64 86
		Purneah	...		...	...			...	Nil	Nil	0 01	0 37	46 85	62 34
		Gondwara ...	...	...	...	...	...		...	Nil	Nil	Nil	?	?	?
		Balarampore	...	...	...	...	...			Nil	Nil	Nil	?	?	-
		Mattari ...	...	...	...	...		...	...	Nil	Nil	Nil	?		?
		Kaliaganj .	...	...				...		Nil	Nil	Nil	?	59 67	
		Maddepore	...	...	...					Nil	Nil	Nil	0·55	61 66	50 89
	North Bhagulpore.	Soopaul .	...	...	...		...	...	...	Nil	Nil	Nil	0 33	45 53	40 05
		Protabganj	...	...	...	...	...	...	...	Nil	Nil	Nil	-	41 14	
	Durbhunga	Tajpore ..	...		...	...	...	...		Nil	Nil	0·07	0·21	46 10	48 81
		Durbhunga	...		...	...	...			Nil	Nil	0 10	0 28	84 21	40 48
		Madhubani .	...	...	...		...			Nil	Nil	Nil	0·40	44 52	46 09
		Bahera ...	...	...			...			Nil	Nil	0 05	?	5? ?1	?
		Roshera ...	...	...		...	...	...	...	Nil	Nil	Nil	?	47 09	?
	Mozufferpore	Sitamarhi .	...	...	...	...	...		...	Nil	Nil	0·03	0·59	36 51	44 07
		Mozufferpore	...	...	...	...	...			Nil	Nil	0 15	0 36	46 10	46 52
		Hajipore ..	...		...	...		...	...	Nil	Nil	0 10	0 31	49 42	42 51
		Paru ..	...		...	...		...	...	Nil	Nil	Nil	?	40 09	
		Mahua ..	...	...	...	...		...	...	Nil	Nil	0 10	?	40 29	-
		Muhar ...	...	...	...	...	...		...	Nil	Nil	Nil	?	42 94	?
		Pupri ...	...	...	...	...	...	...		Nil	Nil	Nil	?	25 00	-
	Chumparun..	Motihari ..	...	...	...	...	...	...		Nil	Nil	0·04	0·35	40 05	45 47
		Bettiah ..	...	...	...	...		...	...	Nil	Nil	0 13	0 37	49 54	49 52
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	0·09	?	56 2?	?
		Burhurwa ...	...	...	...	...	...	...	...	Nil	Nil	0 40	?	45 17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of March 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 23rd March 1889.	Sunday, 24th March.	Monday, 25th March.	Tuesday, 26th March.	Wednesday, 27th March.	Thursday, 28th March.	Friday, 29th March.	TOTAL. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	0·30	0·11	41 34	44·61
		Sewan	...	...	...		...	...	...	Nil	Nil	0 26	0 22	44·44	44·69
		Chuprah		...	...		...	...	...	Nil	Nil	0·34	0 27	39·25	41·42
SOUTH BEHAR	Shahabad	Buxar		...	...	...	...	...	...	Nil	Nil	0·04	0 25	43·33	39·16
		Dehree		...		...	...	...	...	Nil	Nil	1·15	0 55	46·13	39 76
		Bhubooah	...		...	...	...	...	...	Nil	Nil	0 75	0 55	42·22	42·47
		Sasseram	...	...	...	...	...		...	Nil	Nil	1·22	0·23	44 11	41·38
		Arrah	...		...	...	...	...	...	Nil	Nil	0·18	0·28	46 34	41 03
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	0·51	?	36·29	?
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0·27	0 34	55·14	43·59
		Gya	...	...	...	...	...	...	...	Nil	Nil	0·80	0·31	56 01	43·48
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	0 35	0 40	51·18	40 96
		Jehanabad		...	...	...	...	...	...	Nil	Nil	0·25	0·30	49·12	41·43
		Arwal	...	...	...	...	...	...	...	Nil	Nil	0·23	?	40·68	?
		Daudnagar	...	...	...	...		...	...	Nil	Nil	Nil	?	43 15	?
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28 58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	0·20	•	38 91	?
	Patna	Patna	...		...	...	...	...	...	Nil	Nil	0·25	0 29	43·51	42·65
		Dinapore	...	...		...	...	...	...	Nil	Nil	0·33	0·17	45 24	42·05
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0 32	56 52	42 85
		Barh	...	...	...		...	...	...	Nil	Nil	0·20	0 31	59 61	40 53
		Bickram	...	...	...	...	...	...	...	Nil	Nil	0·15		41·05	?
		Hilsa		...		...	...	...		Nil	Nil	0·28	?	50·16	?
	Monghyr	Begooserai	...	...	...	...	...	...	...	Nil	Nil	0·15	0·19	51·73	40·92
		Monghyr	...		...	...	...	...	...	Nil	Nil	0 10	0 28	56 93	47·31
		Jamui	...	...	...	...	...	...	...	Nil	Nil	0·17	0 35	52 50	44·07
		Gogri	...	...	...	...	...	...	...	Nil	Nil	0 09	?	64·76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore	...		...	...		...	...	Nil	Nil	Nil	0·28	56·73	42·96
		Banka	...	...		...	...	...	...	Nil	Nil	Nil	0 30	41·01	45·58
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53 84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·30	48·72	52·63
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0 34	52·17	46·05
		Pakour			...	...	...	...	...	Nil	Nil	0 04	0 54	65·17	56·15
		Nya Doomka	...	...	...		...	...	...	Nil	Nil	0·19	0 65	54 62	51·59
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	0 17	0 55	54·00	51·31
		Jamtara	...	...	...	...	...	...	...	Nil•	Nil	0 55	0·70	57·59	49 29
		Mohagama	...	...		...	...	...		Nil	Nil	Nil	-	?	?
		Nanihat	...	...	...	...	...	...	...	Nil	Nil	Nil	•	29·74	?
CHUTIA NAGPUR.	Hazaribagh	Paresnath (*Giridi*).	...	...	...	...	...	...	...	Nil	Nil	0 38	0·66	58·51	48·79
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	0·98	0·68	56·86	49·43
		Sewtaguran		...		...	...	...	...	Nil	Nil	0 41	1·26	56 78	47 55
		Mahudi Hills		...	...	...	...	...	...	Nil	Nil	0 06	0 81	55 87	49 82
		Jhoomra Hills		...	...		...	...	...	Nil	Nil	Nil	0 86	64·90	63 64
		Barhi	...	...	...	...	...	...	...	Nil	Nil	0 24	?	51 49	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	0·26	?	58 22	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	0·12	?	54 60	•
		Ramghur										Nil	?		?
	Lohardugga	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	0·70	0·62	49·34	53·55
		Ranchi		...	...	...	...	...	...	Nil	Nil	0·30	1 04	53 94	54 20
		Palamow	...	...	...	...	...	...	...	Nil	Nil	0 55	0·58	53 60	44·44
		Silli		...	...	...	...	...	...	Nil	Nil	0 10	?	?	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil		?		?
		Hossenabad	...	...	...	...	...	...	...	Nil	Nil	0 81	?	?	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	0 65	?	48·08	•
	Singbhoom	Chyebassa	...	...	...	...	...	...	...	Nil	Nil	0·32	1·04	41·30	53·58
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·67	?
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55·19	?
		Bunarayura	...	...	...	...	...	...	...	Nil	Nil	1·27	?	62·32	?
	Manbhoom	Purulia	...	...	...	...	...	...	...	Nil	Nil	0·19	1·03	58·25	51·01
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	0·47	0·48	38·00	40 41
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	0·40	?	55 83	?
		Barrabhoom.	...	...	...	...	...	...	...	Nil	Nil	0·43	?	51·72	?
		Jhaldo													
		Chas													

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 2nd April* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 29TH MARCH 1889.

At the close of the previous week weather conditions were slightly disturbed in South and East Bengal, and a few local storms had occurred on the 21st and 22nd in the south-east of the province. Owing to the gradual filling up of the depression that existed, weather conditions were improving, but a few local showers fell at the beginning of the present week in the neighbourhood of Calcutta and in East Bengal. Pressure then became very uniform, and though continuing to rise, the general distribution remained unaltered during the first half of the week. Temperature changes were generally irregular, a rapid increase taking place over small areas, while at others the temperature was very nearly normal. Strong south-westerly winds have continued blowing throughout the week at the head of the Bay. On Tuesday, the 26th, pressure fell, and a low-pressure area began to form in Northern India, partly extending over Bengal. On the following day it deepened considerably in North Behar and North Bengal, and a well-marked depression was formed, and the weather was very unsettled over the hills. The fall was very rapid over the whole of Bengal, and gradients became steep at the head of the Bay. Very little rain fell, however, in connection with the storm, the only report being ·1 inch at Darjeeling. Pressure rose with moderate rapidity on Thursday, and continued to rise slowly on Friday, when pressure became very nearly normal. During the latter half of the week conditions were slightly unsettled over the whole province, but beyond causing slight cloud, the fine weather was generally not interrupted.

Pressure.—Pressure rose at the beginning of the week and continued rising, while great uniformity everywhere prevailed during the first three days of the week. On Tuesday and Wednesday a fall occurred and a deep depression formed over the north of the province. The depression began to fill up on Thursday, and the rise continued slowly on Friday. Pressure was largely in excess on Monday, but in consequence of the rapid fall, it was from ·05 inch to ·1 inch in defect on Wednesday. After that pressure again rose and became very nearly normal by the end of the week. During the rapid fall of Wednesday some stations reported a fall amounting to nearly a fifth of an inch. For the whole week, however, the mean pressure has been slightly in excess of the normal, the excess usually ranging up to about 0·05 inch.

Temperature.—Temperature changes have been generally irregular during the greater part of the week, and there has been considerable diversity in the reports from the different stations. At most of the stations a rather rapid rise has been going on throughout the week, and temperature has been always in excess of the normal. On Thursday the maximum temperature at Cuttack was 107·9° and at Midnapore 106·4°. The only general fall that took place during the week was on Friday, and then it in no case amounted to more than 3°. The mean temperature for the whole province has been about 2° in excess of the normal. The largest excess was in East and South-West Bengal, where it has amounted to over 3°. In all the other districts, except North Behar, the mean was over 2° in excess, and for North Behar about 1°.

The general distribution of temperature for the week and its variation from the normal are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given. It will be seen from these figures that temperature has been rather largely in excess both during the day and during the night:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 29th March 1889.

	Normal mean maximum temperature for the week ending 29th March.	Actual mean maximum temperature for the week ending 29th March.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 29th March.	Actual mean minimum temperature for the week ending 29th March.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 29th March.	Actual mean daily temperature for the week ending 29th March.	Variation of actual mean from the normal.
Cuttack	98·6	103·4	+4·8	75·1	76·9	+1·8	86·9	90·2	+3·3
Calcutta	92·8	94·8	+2·0	72·2	74·1	+1·9	82·5	84·5	+2·0
Dacca	91·8	96·7	+4·9	71·4	73·9	+2·5	81·6	85·4	+3·8
Burdwan	96·1	100·6	+4·5	71·5	74·8	+3·3	83·8	87·7	+3·9
Patna	95·9	98·4	+2·5	66·9	69·6	+2·7	81·4	84·0	+2·6
Gya	98·6	98·0	−0·6	69·7	72·3	+2·6	84·2	85·2	+1·0
Purneah	94·1	95·4	+1·3	64·9	65·4	+0·5	79·5	80·5	+1·0
Hazaribagh	92·7	93·7	+1·0	66·7	70·5	+3·8	79·7	82·1	+2·4
Darjeeling	58·1	60·5	+2·4	49·1	46·7	−2·4	53·6	53·6	0

Rainfall.—Skies have been slightly clouded during the whole week, but rain has been almost entirely absent, the only showers reported being a few in East Bengal, and in the neighbourhood of Calcutta in the early part of the week. A fall of ·1 inch occurred at Darjeeling on the 27th, but no further fall was caused by the depression which existed in North Bengal on Wednesday. Rainfall for the week has been everywhere largely in defect. In fact the only districts which show an appreciable average rainfall are South-West and East Bengal, but even here the amounts do not average more than a few hundredths of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 29th of March 1889:—

Meteorological Divisions.	Temperature						Rainfall									
	Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Averages for week. Of lowest of each day.	Averages for week. Of mean for each day.	Average mean of week above or below normal mean of week.	Of week. Average.	Of week. Normal average.	Of week. Variation.	Rainy days. Average number in week.	Rainy days. Normal average number in week.	Rainy days. Variation.	Since 1st of month. Average.	Since 1st of month. Normal average.	Since 15th May 1888. Average.	Since 15th May 1888. Normal average.
Orissa	107·4	69·9	92·6	77·2	84·9	+2·6	Nil	0·28	—0·28	0 0	0·7	—0·7	0·20	1·06	51·83	55·44
South-West Bengal .	106 4	66·2	98 7	74·3	86 5	+3·1	0·05	0·42	—0·37	0·2	1·0	—0 8	0 51	1·32	57 13	54 36
East Bengal ...	102·0	67 3	92·0	73 3	82·7	+3·2	0·08	0·88	—0·80	0·4	1 3	—0 9	0·49	2 66	72 35	77 98
North Bengal	102 3	55·9	95 9	66 9	81·4	+2 8	Nil	0·40	—0·40	0 0	1 1	—1·1	0 12	1·11	50 66	72 12
North Behar .	98·3	57 9	94 3	65·4	79 9	+1·1	Nil	0 14	—0 14	0·0	0 3	—0 3	0·19	0·42	45 70	40 64
South Behar .	101 5	65 0	97 9	70·6	84·3	+2·3	Nil	0 04	—0 04	0 0	0 2	—0·2	0 30	0 36	51·71	44·68
Chutia Nagpur . .	96 5*	65 1*	94·1*	70·1*	82 1*	+2·6*	Nil	0 08	—0·08	0 0	0 3	—0 3	0 45	0 82	52 10	51·05

* Chyebassa not included.

Meteorological Office, Bengal;
The 2nd April 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th to 30th March 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Temperature. Dry bulb at 10 A.M.	Temperature. Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Hygrometry. Dew point at 10 A.M.	Hygrometry. Humidity at 10 A.M.	Rainfall past 24 hours
1889.		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
March ...	24th .	29 928	82 9	94 6	23·4	71·2	85 1	79·5	·934	77 2	78	0 07
" ..	25th ...	·978	84·5	95 0	21·0	74·0	84·1	74 1	·709	69 0	60	0 36
"	26th	·961	86 3	97 2	21 9	75 3	87·6	80 0	·923	76 8	71	
" ...	27th ..	·836	87 1	100 0	25·8	74·2	90·6	75·5	·681	67 8	48	
" ..	28th	·896	86 5	96 2	19 4	76 8	88·6	78 5	·811	74·0	63	
" ...	29th ..	·924	85 5	95 0	19 0	76·0	87 1	80·5	·953	77 8	74	
" ...	30th ..	·866	85 2	91·5	12·7	78·8	83·6	79 9	·972	78 1	84	

The mean 10 A.M pressure of the seven days	...	...	...	Inches. 29·913
The mean temperature of the seven days	...	...	...	° 85·4
The extreme variation of temperature	...	...	...	28·8
The maximum temperature ...	...	...	...	100·0
The mean 10 A.M. relative humidity of the seven days		...	...	% 68
The total fall of rain from 24th to 30th March 1889		...	...	Inches. 0·43

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, India;
The 1st April 1889.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE principal Municipalities in Bengal returned, during the week ending 16th March 1889, the birth and death-rates of 22·5 and 24·1 per 1,000 of population, respectively, as opposed to 24· and 21·8 per 1,000, respectively, in the preceding week ending 9th March, indicating a retrogression in the registration of births and an improvement in that of deaths.

2. Births and deaths were registered at the highest rates in the undermentioned Municipalities:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Burdwan	54·9	Puri	79 7
Narainganj	49·7	Purneah	62 3
Comillah	46 2	Burdwan	51 9
Serampore	45·1	Utterpara	37·7
Durbhanga	44·1	Suburbs of Calcutta	37·6
Rampore Beauleah	39·4	Rampore Beauleah	34·2
Bhagulpore	34 4	Serampore	33 4
Monghyr	31·6	Durbhanga	32 3

3. The following table shows that, as compared with the outcome of the preceding week, there was an increase of mortality from cholera, but very small differences in the number of deaths from the other diseases mentioned in the table:—

	Ratio per *mille* during the weeks ending— 16th March 1889.	9th March 1889.
Cholera	4 7	3 7
Small-pox	2	·4
Fever	8 8	8 3
Bowel-complaints	3 1	2 4
Injury	·5	·5
Other causes	6 8	6 5

4. The Municipalities noted below were reported to have returned the highest death-rates from cholera, fever and the maladies coming under the head of "Other causes." The other diseases above named not exhibiting any noticeable local severity ·—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Purneah ...	51·9	Rampore Beauleah ...	26 3	Serampore ...	17·7
Puri ...	48 2	Puri ...	25 2	Burdwan ...	13 7
Suburbs of Calcutta ...	8·5	Burdwan .	22·9	Bhagulpore ...	13·6
Burdwan .	7·6			Suburbs of Calcutta ...	10 5
Gya .	7 5				
Howrah ...	5·7				

5. Under the heads of *Sex*, *Class* and *Age*, the mortality stood as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille*	*According to Age.*	Ratio per *mille.*
Males	16·6	Christians	30·4	Under 1 year ...	171 5
Females	21 3	Hindus	25·1	1 and under 5 years .	33 7
Ratio of male deaths to every 100 female deaths	141	Mahomedans ..	21·6	5 „ 10 „ ...	9 5
		Bhuddhists ...	21 2	10 „ 15 „ ...	9·5
				15 „ 20 „ .	18 3
				20 „ 30 „ ...	15 7
				30 „ 40 „ ...	19 1
				40 „ 50 „ ...	17 8
				50 „ 60 „ ...	31 4
				60 years and upwards	60 1

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 1st April 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 16th March 1889.

1	2	3			4			5			6
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS — Number of—			BIRTHS — Ratio per 1,000 of Population per Annum.			Ratio of male births to every 100 female births.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
Burdwan	Burdwan	18,063	15,017	34,080	13	23	36	19.8	35.1	54.9	56
Midnapore	Midnapore	16,927	16,633	33,560	1	...	1	1.5	...	1.5	No female birth
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	8	8	16	10.7	10.7	21.5	100
Serampore	Serampore	13,559	12,937	26,496	10	13	23	19.0	25.5	45.1	76
	Utterpara	3,046	2,464	5,510		..	...	.	.	...	..
Howrah ...	Howrah	53,153	37,660	90,813	20	10	30	11.5	5.7	17.2	200
	Bali	7,836	6,979	14,815	3	4	7	10.5	14.0	24.6	75
24-Pergunnahs ...	Suburbs of Calcutta ..	147,205	104,234	251,439	54	45	99	11.2	9.3	20.5	120
Nuddea ...	Kishnaghur	13,263	14,214	27,477	10	5	15	18.9	9.5	28.4	200
	Ranaghat	4,028	4,655	8,683	...	..	...	.		..	...
	Santipore	13,708	15,979	29,687	4	5	9	7.0	8.8	15.8	80
Jessore	Jessore	4,830	3,665	8,495	2	1	3	12.2	6.1	18.4	200
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	6	9	15	15.8	23.6	39.4	66
Darjiling	Darjiling*	5,029	2,947	7,976	2	1	3	13.0	6.5	19.6	200
Dacca ...	Dacca	42,782	37,379	80,161	21	11	32	13.6	7.1	20.8	190
	Narainganj	7,605	4,956	12,561	7	5	12	29.0	20.7	49.7	140
Chittagong ..	Chittagong	13,340	8,790	22,130	4	5	9	9.4	11.7	21.1	80
Tipperah	Comillah	8,153	5,353	13,506	3	9	12	11.5	34.7	46.2	33
Patna	Patna City	78,762	81,475	160,237	21	15	36	6.8	4.9	11.7	140
Gya	Gya	38,290	37,831	76,121	10	14	24	6.8	9.6	16.4	71
Shahabad	Arrah	20,960	22,505	43,465	5	6	11	6.0	7.2	13.2	83
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	4	1	5	4.9	1.2	6.1	400
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	30	26	56	23.6	20.5	44.1	115
Sarun	Chupra	26,044	27,205	53,249	12	16	28	11.7	15.6	27.3	75
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	23	15	38	20.8	13.6	34.4	153
Monghyr	Monghyr	28,154	29,366	57,520	19	16	35	17.2	14.4	31.6	118
Purneah	Purneah	8,463	6,553	15,016	1	2	3	3.5	6.9	10.4	50
Puri	Puri	13,247	11,537	24,784	9	4	13	18.9	8.4	27.3	225
	Total ...	702,890	619,891	1,322,581	302	269	571	11.9	10.6	22.5	112

1	2	7							8							9	10		11		12
		MORTALITY ACCORDING TO—																			
		Disease — Deaths from—							Disease — Ratio per 1,000 of Population per Annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Sex — Deaths.		Sex — Ratio per 1,000 of Population per Annum.		Ratio of male deaths to every 100 female deaths.
DISTRICTS.	NAMES OF MUNICIPALITIES.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan	Burdwan	5	.	15	5	..	9	34	7.6	..	22.9	7.6	...	13.7	51.9	33.6	25	9	72.0	29.2	277
Midnapore	Midnapore	2	...	2	2	...	5	11	3.1	..	3.1	3.1	...	7.7	17.0	10.8	6	5	18.4	15.6	120
Hughli	Hughli and Chinsurah ...	3	...	4			4	11	4.0	...	5.4	.	...	5.4	14.8	25.5	4	7	10.8	18.6	57
Serampore	Serampore	1	.	5	2	...	9	17	2.0	..	9.8	3.9	...	17.7	33.4	35.3	8	9	30.7	36.2	88
	Utterpara	..	...	2	1	.	1	4	..	...	18.9	9.4	..	9.4	37.7	28.3	3	1	51.2	21.1	300
Howrah ...	Howrah	10	1	10	5	2	8	36	5.7	.6	5.7	2.9	1.1	4.6	20.6	22.9	18	18	17.6	24.9	100
	Bali	...	..	1	..	..	1	2		...	3.5	...	...	3.5	7.0	24.6	2	...	13.3	...	No female death.
24-Pergunnahs ...	Suburbs of Calcutta ..	41		52	36	2	51	182	6.5	.	10.8	7.4	.4	10.5	37.6	33.5	116	66	41.0	32.9	175
Nuddea ...	Kishnaghur	...	...	6	...	1	3	10	...	...	11.3	...	1.9	5.7	18.9	20.8	7	3	27.4	11.0	233
	Ranaghat	...	...	1	1	...	...	2	.	..	6.0	6.0	..	...	12.0	.....	2	...	25.8	...	No female death.
	Santipore	..	...	4	..	1		5	...	...	7.0	...	1.8	...	8.8	17.5	2	3	7.6	9.8	66
Jessore	Jessore	...	...	3	1	...	..	4	.	...	18.4	6.1	...	...	24.5	6.1	3	1	32.3	14.2	300
Rajshahye	Rampore Beauleah ...	..	..	10	..		3	13	.	...	26.3	...	...	7.9	34.2	18.4	8	5	38.6	28.8	160
Darjiling	Darjiling*	...	...	1	..	...	...	1	..	...	6.5	...	...	...	6.5	19.5	1	...	10.3	...	No female death.
Dacca ...	Dacca	3	1	21	2	...	10	37	1.9	.6	13.6	1.3	.	6.5	24.0	21.4	24	13	29.2	18.1	184
	Narainganj	...	...	2	2	...	2	6	.	...	8.2	8.2	...	8.2	24.8	24.8	5	1	34.2	10.5	500
Chittagong ..	Chittagong	3	...	4	...	...	1	8	7.0	...	9.4	.	...	2.3	18.8	9.4	5	3	19.5	17.7	166
Tipperah	Comillah	1	...	1	..	...	1	3	3.8	...	3.8		...	3.8	11.5	15.4	1	2	6.4	19.4	50
Patna	Patna City	...	2	11	7	1	9	30	.	.6	3.6	2.3	.3	2.9	9.7	11.3	18	12	11.9	7.7	150
Gya	Gya	11	1	15	1	...	8	36	7.5	.7	10.2	.7	...	5.5	24.6	28.0	22	14	29.9	19.2	157
Shahabad	Arrah	...	..	2	1	1	3	7	.	...	2.4	1.2	1.2	3.6	8.4	4.8	..	7	..	16.2	No male death.
Mozufferpore ..	Mozufferpore	...	...	2	...	...	3	5	..		2.4	...	...	3.6	6.1	10.9	3	2	6.8	5.3	150
Durbhanga... ...	Durbhanga	2	..	19	9	1	10	41	1.6	..	14.9	7.1	.8	7.9	32.3	22.8	22	19	33.9	30.6	115
Sarun	Chupra	...	...	3		1	4	8	.	...	2.9	..	1.0	3.9	7.8	17.6	6	2	12.0	3.8	300
Bhagulpore... ...	Bhagulpore	.	...	9	.		15	24	...	...	8.1	.	...	13.6	21.7	18.1	13	11	22.8	20.6	118
Monghyr	Monghyr		..	6	4	3	7	20		...	5.4	3.6	2.7	6.3	18.1	15.4	8	12	14.8	21.2	66
Purneah	Purneah	15	...	1	...	...	2	18	51.9	...	3.5	...	...	6.9	62.3	34.6	10	8	61.4	63.5	125
Puri	Puri	23		12	...	.	3	38	48.2	.	25.2	...	...	6.7	79.7	31.5	17	21	66.7	94.7	80
	Total ...	120	5	224	79	13	172	613	4.7	.2	8.8	3.1	.5	6.8	24.1	21.8	359	254	26.6	21.3	141

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

Districts.	Names of Municipalities.	13. Mortality according to— Class. Deaths among—					14. Ratio per 1,000 of population per annum.					15. Mortality according to— Age. Deaths.										16. Ratio per 1,000 of population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	..	19	15	...	.	. .	41·7	76·4		.	11	3		1	...	5	8	2	4		866·7	60·1	.	20·7	.....	32·8	66·3	23·5	84·7	......
Midnapore	Midnapore	.	10	1	.	.	..	20·1	7·2				1			1	..	4	1	1	3	.	22·1	.	.	16·5	......	37·5	14·0	25·2	85·2
Hughli	Hughli and Chinsurah ..	. .	9	2		.	..	14·5	15·2		.	4	2	1	1	. •	. .	1	2	...	...	220·6	39·0	14·9	17·2	. .	....	7·4	20·2	.	... ..
Serampore	Serampore	...	16	1		.	..	33·0	55·4	..	.	3	1		.		2	.	3	3	5	219·7	28·8			.	19·3		46·2	81·5	186·9
	Utterpara	...	4	...	.	.		39·1		.	..				..			3	1	..			..	. .	. . .	. ●	... ..	147·0	74·2		...
Howrah	Howrah	1	29	6	.		27·5	23·1	15·2		.	10	5	2	.	4	5	3	1	2	4	252·1	46·9	16·5	.	28·4	11·5	8·1	4·4	18·9	55·5
	Bali	...	2			.	.	7·8	.	..	..	1	...	..		.	1			...	.	141·6		.		. ..	15·5	.	.. .	...	......
24-Pergunnahs	Suburbs of Calcutta	1	118	63	.	.	12·8	40·9	33·9	.	..	23	25	8	6	9	28	32	14	14	23	251·0	80·5	21·0	17·4	26·0	25·1	32·2	21·4	42·9	84·0
Nuddea ...	Kishnaghur	1	4	5	...		91·7	11·2	81·4	.	...	3		1	.	.	3	2	1	..	.	314·5	.	15·1	. .	..	32·4	24·3	15·9	. .	......
	Ranaghat	...	2		...	.		14·2			..	.	..		.			...	1	1		... ..	......	.	... .	.....	..	..	51·8	71·8	... ..
	Santipore	...	3	2	..	.	.	7·5	11·6	..	..	...		...	.		2	.	...	1	2	... ..		..	. .	..	21·2	.	......	22·6	53·0
Jessore	Jessore	...	2	2	..	..	..	23·1	27·2		..			.	1	1		.	..	...	2	...		. .	78·2	71·0		. .	.. ..	.. ...	227·1
Rajshahye	Rampore Beauleah	..	6	7	...	..	...	31·5	37·1	.	.	3	2	1	..	2		1	.	2	2	384·2	73·3	25·0	. ...	62·6	..	14·4	......	83·8	108·0
Darjiling	Darjiling	.	1	...				11·3			..		.	.			...		1	...	.	. . .	.	. .	.	. .	......	......	75·1	....	......
Dacca	Dacca	.	22	15	...	...	..	28·4	19·8	. .		5	4	.	.	6	2	3	3	9	5	157·0	28·2	.. .	......	42·7	6·8	13·4	18·6	95·8	46·7
	Narainganj	..	5	1		..	.	41·1	8·4			3	1	. .	1	.	...	...	1		...	559·1	45·6	...	45·8	...	......	—	57·3	. . .	... .
Chittagong	Chittagong	4	2	1	1		261·3	17·0	3·4	216·7	...		..		..	1	3	..	2	1	1	.. .	. ...	......	... ..	21·5	33·7	.. .	46·1	47·9	65·3
Tipperah	Comillah	...	1	2	.	..	...	8·7	14·1	...	.	1		.	.		...	1	.	...	1	175·1	..	.	. ..		. . . .	26·1	...	...	76·7
Patna	Patna City	.	28	2	..	...		12·2	2·5	...	.	5	4	4	1	2	4	5	2	1	2	60·3	[illegible]4·3	12·4	3·6	9·3	7·2	11·2	5·5	3·7	7·5
Gya	Gya	...	33	3	...	..	. .	28·6	9·7	.	.	7	3	1	2	..	5	.	8	7	3	203·4	24·6	7·4	15·5	.....	17·7	. ..	42·6	55·4	30·3
Shahabad	Arrah	...	6	1	...	...	...	10·1	4·2	.	...	3	.	...	...		...	1		1	2	121·1	. ..	. . .	.. ...	... ..	..	8·1	.. ...	16·8	36·1
Mozufferpore	Mozufferpore	..	5	...	...	...	.	8·7	.	..	..	2			...	.	...	1	...	1	1	108·9	..	... .	..	.. ...	.. .	7·5	... ..	16·0	21·4
Durbhanga	Durbhanga	. .	30	11	...	•..	..	32·2	32·6	...	..	7	6	4	1	3	1	4	2	6	7	253·8	41·0	26·6	9·4	38·8	3·9	18·6	14·0	71·1	114·0
Sarun	Chupra	...	5	3	...	...	..	6·1	13·0	...	.	2	..	1	1	...	1	3	. .	.	.	72·0	...	8·4	10·1	.. ...	5·5	19·3	......	......	......
Bhagulpore	Bhagulpore	...	17	7	...	...	...	22·2	21·1	...	...	2	9	...	2	1	4	1	1	1	3	87·1	86·3	..	16·5	12·4	19·0	5·6	8·1	12·2	43·3
Monghyr	Monghyr	...	16	4	...	...	...	18·6	16·5	...	...	4	2	.	2	1	4	2	1	..	4	140·1	16·7	......	18·1	13·8	20·1	11·7	8·2	.. . .	58·0
Purneah	Purneah	. .	11	7	...	...	...	62·3	64·3	..	...	1	1	1	1	1	5	1	3	3	1	182·6	43·0	32·9	43·5	52·3	79·1	16·2	84·1	166·5	64·4
Puri	Puri	...	36	2	...	...	...	76·3	495·2		...	...	2	.	1	3	7	8	5	5	7	...	57·8	.. ..	27·7	83·9	68·9	102·6	78·2	116·5	201·6
	Total ...	7	442	163	1		30·4	25·1	21·6	24·2	.	100	71	24	21	35	82	84	55	63	78	171·5	33·7	9·5	9·5	18·3	15·7	19·1	17·8	34·4	50·4

Office of Sanitary Commissioner for Bengal,

The 1st April 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of February 1889.

Date.	River Ganges.							
	Mirzapur.		Benares.		Buxar.		Dinapur.	
Distance.	From Allahabad ...		From Allahabad ... 134	From Mirzapore 48	From Benares		From Benares 177	From Buxar 87
Miles.	86		134	48	90		177	87
	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea-level
1st	1.67	207.89	0.00	196.89	2.59	171.63	8.00	142.23
2nd	1.67	207.89	0.00	196.89	2.67	171.72	7.80	142.03
3rd	1.58	207.80	0.00	196.80	2.67	171.72	7.75	141.98
4th	1.50	207.72	0.00	196.80	2.58	171.63	7.70	141.93
5th	1.50	207.72	0.08	196.88	2.58	171.63	7.70	141.93
6th	1.42	207.64	0.17	196.97	2.55	171.63	7.70	141.93
7th	1.33	207.55	0.25	197.05	2.58	171.63	7.70	141.93
8th	1.33	207.55	0.33	197.13	2.58	171.63	7.75	141.98
9th	1.75	207.97	0.33	197.13	2.50	171.55	8.00	142.23
10th	2.00	208.22	0.33	197.13	2.50	171.55	8.15	142.38
11th	2.50	208.72	0.33	197.13	2.50	171.55	8.20	142.43
12th	2.92	209.14	1.00	197.80	2.67	171.72	8.00	142.23
13th	3.17	209.39	1.17	197.97	2.83	171.88	7.95	142.18
14th	3.25	209.47	1.50	198.30	2.92	171.97	7.95	142.18
15th	3.17	209.39	1.50	198.30	3.08	172.13	7.95	142.18
16th	3.00	209.22	1.50	198.30	3.25	172.30	7.90	142.13
17th	3.00	209.22	1.42	198.22	3.33	172.38	7.90	142.13
18th	3.00	209.22	1.38	198.18	3.42	172.47	7.90	142.13
19th	3.17	209.39	1.33	198.13	3.42	172.47	8.20	142.43
20th	3.33	209.55	1.67	198.47	3.33	172.38	8.20	142.43
21st	3.50	209.72	1.92	198.72	3.33	172.38	8.20	142.43
22nd	3.58	209.80	2.00	198.80	3.33	172.38	8.15	142.38
23rd	3.75	209.97	2.17	198.97	3.50	172.55	8.10	142.13
24th	3.75	209.97	2.17	198.97	3.58	172.63	8.20	142.43
25th	3.75	209.97	2.17	198.97	3.75	172.80	8.10	142.33
26th	3.75	209.97	2.25	199.05	3.83	172.88	8.30	142.53
27th	3.83	210.05	2.25	199.05	3.83	172.88	8.40	142.63
28th	3.83	210.05	2.25	199.05	3.75	172.80	8.60	142.83

Date.	River Ganges.							
	Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.	
Distance.	From Benares 287	From Dinapur 110	From Benares 381	From Monghyr 94	From Benares 471	From Sahebgunge 90	From Benares 591	From Rampore Beauleah 120
	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea level.
	Below zero		Below zero.		Below zero.			
1st	2.50	99.35	0.33	67.67	0.19	41.81	0.83	9.77
2nd	2.58	99.27	0.25	67.75	0.02	41.98	1.00	9.94
3rd	2.71	99.14	0.25	67.75	0.06	41.94	1.00	9.94
4th	2.83	99.02	0.33	67.67	0.13	41.87	1.17	10.11
5th	2.88	98.97	0.50	67.50	0.17	41.83	1.17	10.11
6th	2.75	99.10	0.58	67.42	0.15	41.85	1.17	10.11
7th	2.67	99.18	0.58	67.42	0.11	41.89	1.17	10.11
8th	2.67	99.18	0.67	67.33	0.06	41.94	1.00	9.94
9th	2.75	99.10	0.58	67.42	0.02	41.98	0.83	9.77
10th	2.79	99.06	0.58	67.42	0.02	41.98	0.67	9.61
11th	2.83	99.02	0.67	67.33	0.04	41.96	0.50	9.44
12th	2.96	98.89	0.58	67.42	0.04	41.96	0.42	9.36
13th	2.92	98.93	0.58	67.42	0.02	41.98	0.42	9.36
14th	3.00	98.85	0.58	67.42	0.00	42.00	0.42	9.36
15th	3.04	98.81	0.67	67.33	0.00	42.00	0.50	9.44
16th	3.13	98.72	0.67	67.33	0.04	41.96	0.58	9.52
17th	3.17	98.68	0.75	67.25	0.08	41.92	0.58	9.52
18th	3.08	98.77	0.75	67.25	0.11	41.89	0.75	9.69
19th	3.04	98.81	0.67	67.33	0.13	41.87	0.83	9.77
20th	2.88	98.97	0.67	67.33	0.15	41.85	1.00	9.94
21st	2.88	98.97	0.67	67.33	0.17	41.83	1.00	9.94
22nd	2.90	98.95	0.70	67.30	0.13	41.87	0.75	9.69
23rd	2.94	98.91	0.50	67.50	0.08	41.92	0.67	9.61
24th	3.00	98.85	0.50	67.50	0.04	41.96	0.58	9.52
25th	3.04	98.81	0.58	67.42	0.00	42.00	0.50	9.44
26th	3.04	98.81	0.58	67.42	0.00	42.00	0.42	9.36
27th	2.83	99.02	0.58	67.42	0.04	41.96	0.42	9.36
28th	2.75	99.10	0.58	67.42	0.08	41.92	0.50	9.44

Date.	River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Berhampore.		Sarupgunge.		Gowhatty.	
	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea level	Height over zero	Height over mean sea-level.
					Below zero.	
1st	1.96	35.70	3.58	7.88	3.65	145.11
2nd	2.04	35.78	4.13	8.43	3.68	145.08
3rd	2.33	36.07	2.83	7.13	3.68	145.08
4th	2.50	36.24	4.00	8.30	3.65	145.11
5th	2.42	36.16	3.21	7.51	3.60	145.16
6th	2.29	36.03	3.17	7.47	3.33	145.43
7th	2.21	35.95	2.75	7.05	3.33	145.43
8th	2.08	35.82	2.50	6.80	2.94	145.82
9th	2.00	35.74	2.42	6.72	3.20	145.56
10th	1.92	35.66	2.25	6.55	3.50	145.26
11th	1.88	35.62	2.25	6.55	3.68	145.08
12th	1.88	35.62	2.33	6.63	3.75	145.01
13th	1.83	35.57	2.38	6.68	3.85	144.91
14th	1.75	35.49	2.54	6.84	3.93	144.83
15th	1.71	35.45	2.83	7.13	3.83	144.93
16th	1.71	35.45	2.75	7.05	3.77	144.99
17th	1.71	35.45	3.08	7.38	3.76	145.00
18th	1.67	35.41	3.00	7.30	3.71	145.05
19th	1.67	35.41	3.50	7.80	3.79	144.97
20th	1.71	35.45	3.33	7.63	3.95	144.81
21st	1.71	35.45	2.67	6.97	3.97	144.79
22nd	1.67	35.41	2.75	7.05	4.08	144.68
23rd	1.67	35.41	2.33	6.63	3.98	144.78
24th	1.63	35.37	2.25	6.55	3.94	144.82
25th	1.63	35.37	2.21	6.51	3.90	144.86
26th	1.63	35.37	2.17	6.47	3.74	145.02
27th	1.58	35.32	2.17	6.47	3.65	145.11
28th	1.58	35.32	2.42	6.72	3.78	144.98

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

The 26th March 1889.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of February 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
629	1. Grain ...	1,440	3,692	5,132	2,86,443	5,132	2,86,443	
......	2. Cotton ...	......	......	......	......	......	...	
33	3. Oilseeds ...	......	412	412	46,168	412	46,168	
254	4. Salt ...	2,283	......	2,283	1,94,525	2,283	1,94,525	
......	5. Piece-goods ...	......	......	......	......	......	......	
22	6. Metal .	75	29	104	88,360	104	88,360	
36	7. Building materials	358	66	424	7,417	424	7,417	
614	8. Miscellaneous ...	1,576	3,111	4,687	7,43,003	4 687	7,43,003	
57	9. Fuel ...	472	155	627	2,359	627	2,359	
2 rafts	10 Timber ...	848 c. ft.	120 c. ft.	968 c. ft	1,872	968 c. ft.	1,872	
11 „	11. Bamboos ...	......	3,300 „	3,300 „	128	3,300 „	128	
1,645 & 13 rafts.	12. Total ...	6,204 & 848 c. ft	7,465 & 3.420 c. ft.	13,669 & 4,268 c ft.	13,70,275	13 669 & 4,268c ft	13,70,275	
2,050 & 58 rafts.	13. Total of same month last year	6,370 & 1,900 c. ft.	8,775 & 13,455 c. ft.	15,115 & 15,355 c. ft	14,06,366	15,115 & 15,355 c. ft	14,06,366	

	Up.*	Down.	Total.
14. Total number of boats plying cargo No.	888	757	1,645
14A. Ditto empty boats, steamers &c. No.	661	254	915
15. Total number of boats plying passenger No.	773	913	1,686
15A. Ditto empty boats „	22	10	32
16. Total registered tonnage, cargo Tons	20,872	15,890	36,762
17. Total registered tonnage, passenger Tons	159	181	340
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	6,50,138	7,18,137	13,68,275
20. Number of passengers No.	3,414	4,469	7 883
21. Rafts, bamboos C. ft.	....	3,300	3,300
22. Do., bullahs „	848	120	968
23. Estimated value of rafts Rs.	1,677	323	2,000
24. Tollage on boats „	3,923-8-0	4,169-4-6	8,092-12-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	8-14-6	4-11-0	13-9-6
27. Total tollage on boats per ton-mile* ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-5-1

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	8,106	6	0
Total tollage of same month last year ..	8,874	11	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	500	13	0
2. Tollage per month ...	8,106	6	0
3. Total ...	8,607	3	0
4. Amount paid into Treasury during the month ...	8,381	5	8
5. Balance due at the end of the month ...	225	13	4

* Boats in these rivers do not pay per mile.

Abstract for the month of February 1889 as compared with the corresponding month of the previous year.

	1888-89. During the month.			1888-89. To end of the month.			1887-88. During the month.			1887-88. To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Tollage	8,106	6	0	1,83,793	7	2	8,874	11	0	1,90,400	4	4

CALCUTTA,
The 1st April 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1888-89

Areas leased for Irrigation up to the end of February 1889.

Circle	District	Canal	Estimated full discharge	Average discharge in month	Discharge utilised	Approximate area of [illegible] irrigated during the month	Approximate area of [illegible] irrigated up to [illegible] year	Details of areas leased: Five years all crops	Five years kharif	Annual leases: Kharif	Rubi	Sugar-cane	[illegible]	Hot-weather	Total	Grand Total	Rainfall, 1888-89: During month	Up to end of month	Rainfall, 1887-88: During month	Up to end of month	Remarks
			C	C ft	C f.	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Inches	Inches	Inches	Inches	
Orissa	Cuttack	Taldunda, 1st Reach	1,342		7	10,[illegible]	7,02[illegible]		10,049		2 2	14		.	246	10,[illegible]95	0 75	70 23	0 70	54 06	
		Taldunda, 2nd Reach	563	40																	
		Machgong	776	12	6	27 239	1[illegible]		27 239		1		..		1	27,240	0 17	48 69	0 70 1 39	51 3[illegible] 27 55	
		Kendrapara	[illegible]	27 46	18 17	49 [illegible]	37 9[illegible]3		48,[illegible]07	2[illegible]	2,3[illegible]8	40	.		2,3 8	51 305	2 [illegible] 1 3[illegible]	51 [illegible] 38 8	1 18	34 [illegible]6	
		Gobri	372 82	26 48	[illegible]	1,717	67[illegible]		1,[illegible]2[illegible]	.	[illegible]	.	.		22	1,548	1 39	47 9[illegible]	3 55	14 10	
		Gobri extension	649	12 8	12 26	2,[illegible]45			1 4[illegible]						.	1,[illegible]49	No gauge fixed.				
		Pattamundai	585	71 [illegible]	[illegible] 7	6 2[illegible]	8 092		8 7 7		[illegible]				8	5,795					
		High Level, Range I	605	88 80	10 [illegible]	18 709	14,6[illegible]		16,620		264	2			266	16,556	0 10	39 05	0 90	17 00	
		High Level, Range II	727 16		.	2,474	1,[illegible]	.	1,814	12	60			.	72	1,886	.				
	Balasore	High Level, Range III	727 16	.	.	2[illegible],5[illegible]8	9,710		19 786	12	.	122	..	.	214	20,0[illegible]0	0 32	51 44	1 19	52 04	
		Total ..		.		142 268	19,432	..	186,167	124	2 925	178			3,[illegible]27	139,394					
	Total of the corresponding period of last year.				..				104 265	45	555	171			771	105,036			.		
South-Western.	Midnapore	Midnapore	1,411	254		49 7[illegible]	57,900		54,786	..						54,786	4 8[illegible]	68 01	1 47	55 25	27 days discharging
		Panchkoorah	522	53	.	4,019	3 578	.	5[illegible]07	44	1,202				1,246	6,853	3 79	59 47	1 62	56 01	Whole month discharging.
	Howrah	Tidal Reaches, Ranges I and II.	...		..	3[illegible]9	267	. .	502		147			..	147	649		..	.		
		Total .				54,777	61 694		60,595	44	1,349				1,339	62,2[illegible]8					
	Total of the corresponding period of last year			.					63,849	36	1,162				1,198	65,[illegible]38	.		.		
Sone	Shahabad	Western Main	4,342	1,264	6	2[illegible],95[illegible]	[illegible]0,558	1[illegible] [illegible]		1 980	[illegible]	127	52	201	11 011	27,470	1 3	42 43		34 14	
		Buxar	1,226	3[illegible]7	180	90 168	84,346	41,823		18,[illegible]	21 [illegible]	1 [illegible]	171	1,971	42 7[illegible]0	[illegible] 613					
		Arrah	2,000	776	246	1[illegible]9 4[illegible]4	140,6[illegible]5	101,[illegible]02		[illegible]9 0[illegible]7	20,[illegible]4[illegible]	1,[illegible]4	27	6,552	58 252	139 [illegible]54	0 98	39 29	0 01	39 72	
	Patna and Gya.	Eastern Main	1,466	266	186	1,7[illegible]1	1 539	8[illegible]6		479	8[illegible]	19			577	1 444	3 42	50 10	.	46 43	
		Patna				64,710	61,179	[illegible]6,25[illegible]		2[illegible],[illegible]21	6 1[illegible]9	243	[illegible]01		27,224	[illegible]3 5[illegible]					
		Total .			.	351,[illegible]	3[illegible]8,257	1[illegible]8 901		71,[illegible]7	[illegible]	3,[illegible]	3[illegible]1	9,[illegible]74	1,4[illegible],784	33[illegible],[illegible]5					
	Total of the corresponding period of last year.		..				.	207,854		45,261	1[illegible],5[illegible]	3,891	224	9,313	73,258	291,112				.	
		Grand Total				551,103	479,[illegible]3	195,901	197,462	71,365	61,[illegible]	3,726	331	9,054	1,45,404	541,367				.	
	Grand Total of the corresponding period of last year		..					207,854	168,105	43,342	18,293	4,062	224	9,313	74,227	451,186	...		..	.	

The 1st April 189.

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Calcutta and Eastern Canals.

Statement showing quantities of Goods carried during the month of February 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,879	1. Grain	37,760	4	37,764	39,42,036	37,764	39,42,036	* For detail, see next page.
......	2. Cotton ...	.....	......	......	... ..	. ...	... ..	
16	3. Oilseeds	250	......	250	33,312	250	33,312	
337	4. Salt ...	393	5,233	5,626	5,11,956	5,626	5,11,956	
......	5 Piece-goods ..	... ..	......	......				
16	6. Metal ..	83	82	165	39,273	165	39 273	
251	7. Building materials	4 816	356	5,172	80,468	5,172	80,468	
1,874	8. Miscellaneous* ...	17,623	1,496	19,119	22,71,851	19,119	22,71,851	
656	9. Fuel ...	13,548	2,115	15,663	1,21,436	15,663	1,21,436	
......	10. Timber ...	......	......	......	......	... ..	...	
..	11. Bamboos	......		......	..	......		
5,029	12. Total	74,473	9,286	83,759	70,00,332	83,759	70,00,332	
6,224	13. Total of same month last year	77,588	12,880	90,468	65,69,212	90,468	65,69,212	

	Up.	Down	Total
14. Total number of boats plying cargo No	4,447	582	5,029
14a Ditto empty „	2,669	829	3,498
15. Total number of boats plying passenger No.	246	3	249
16. Total registered tonnage, cargo Tons	204,829	26,893	231,722
17 Total registered tonnage, passenger Tons	580	4	584
18. Ton-mileage ..	1,805,950	2,68,930	2,071,880
19. Estimated value of cargo Rs	63,14,943	6,85,389	70,00,332
20. Number of passengers No.	1,288	6	1,294
21. Rafts, bamboos C. ft	... ..		
22. Do., bullahs „	... ..	......	.. .
23. Estimated value of rafts Rs	...	...	......
24. Tollage on boats „	42,606-1-3	7,811-1-6	50,417-2-9
25. Compounded tollage on boats Rs.	.....	......	.....
26. Tollage on rafts „	... ..	......	......
27. Total tollage on boats per ton-mile Pie	... .	.. ...	Pies 4 65
28. Ditto on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A	P.
Total tollage of month—24+25+26 ...	50,417	2	9
Total tollage of same month last year ..	59,350	8	9

Memorandum of Tollage.

	Rs.	A.	P.
1 Balance not recovered on the 1st of the month ...	1,398	6	6
2. Tollage per month ...	50,417	2	9
3. Total	51,815	9	3
4. Amount paid into Treasury during the month ...	49,917	5	3
5. Balance due at the end of the month ...	1,898	4	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
447	(a) Jute ...	12,159	......	12,159	15,32,025	12,159	15,32,025	
36	(b) Jaggery ...	335	14	349	31,768	349	31,768	
12	(c) Sugar ...	21	.....	21	4,800	21	4,800	
1	(d) Tobacco ...	3	......	3	525	3	525	
535	(e) Fish ...	150	......	150	41,974	150	41,974	
6	(f) Hides ...	14	......	14	3,060	14	3,060	
63	(g) Poultry ...	14	......	14	12,069	14	12,069	
196	(h) Hay and straw ...	1,647	....	1,647	40,362	1,647	40,362	
78	(j) Oils ...	75	963	1,038	1,45,375	1,038	1,45,375	
31	(k) Earthenware ...	4	6	10	1,368	10	1,368	
469	(m) Other miscellaneous ...	3,201	513	3,714	4,58,525	3,714	4,58,525	
1,874	Total Miscellaneous...	17,623	1,496	19,119	22,71,851	19,119	22,71,851	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of February 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
3,914	1. Grain ...	14,192	......	14,192	11,41,760	14,192	11,41,760	* For detail see next page.
5	2. Cotton ...	50	......	50	27,550	50	27,550	
1	3. Oilseeds ...	7	......	7	650	7	650	
60	4. Salt ..	534	270	804	73,206	804	73,206	
......	5. Piece-goods ...	......	......	......	......	......	......	
1	6. Metal ...	11	......	11	900	11	900	
317	7. Building materials	3,208	... .	3,208	14,068	3,208	14,068	
1,651	8. Miscellaneous* ..	4,493	89	4,582	4,15,089	4,582	4,15,089	
212	9. Fuel ...	2,770	122	2,892	22,058	2,892	22,058	
......	10. Timber ...	.. ...	......	......	.....		......	
10 rafts.	11. Bamboos ...	287 c. ft.	......	287 c. ft.	36	287 c. ft.	36	
6,161 & 10 rafts	12. Total ...	25,265 & 287 c. ft.	481	25,746 & 287 c. ft.	16,95,317	25,746 & 287 c. ft.	16,95,317	
7,396 & 7 rafts.	13. Total of same month last year ...	30,144 & 370 c. ft.	689 & 478 c. ft.	30,833 & 818 c. ft.	17,66,801	30,833 & 848 c. ft.	17,66,801	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	6,095	66	6,161
14a. Ditto empty ... "	2,090	316	2,406
15. Total number of boats plying passenger ... No.	628	53	681
16. Total registered tonnage, cargo ... Tons	72,952	2,538	75,490
17. Total registered tonnage, passenger ... Tons	1,561	192	1,753
18. Ton-mileage	7,02,493	40,608	7,43,101
19. Estimated value of cargo Rs.	16,62,188	33,093	16,95,281
20. Number of passengers No.	5,561	371	5,932
1. Rafts, bamboos C. ft.	287	......	287
. Do., bullahs "	......	......	......
Estimated value of rafts Rs.	36	......	36
Tollage on boats "	12,367-1-3	675-3-0	13,042-4-3
ompounded tollage on boats ... Rs.	......	......	......
ollage on rafts "	2-8-0	......	2-8-0
tal tollage on boats per ton-mile . Rs.	......	......	Pies. 3·36
Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-13-11

	Rs. A. P.
Total tollage of month—24+25+26 ...	13,044 12 3
Total tollage of same month last year ...	17,106 10 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	339 6 6
2. Tollage per month ...	13,044 12 3
3. Total	13,384 2 9
4. Amount paid into Treasury during the month ...	12,789 8 9
5. Balance due at the end of the month ...	594 10 0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value Rupees.	Remarks.
14	(a) Jute ...	127	......	127	15,975	127	15,975	
57	(b) Jaggery ...	348	......	348	31,678	348	31,678	
2	(c) Sugar ...	9	......	9	2,000	9	2,000	
7	(d) Tobacco ...	61	......	61	11,900	61	11,900	
258	(e) Fish ...	52	1	53	14,811	53	14,811	
1	(f) Hides ...	9	......	9	3,000	9	3,000	
......	(g) Poultry ...	......	......	......	......	......	......	
772	(h) Hay and straw...	1,241	......	1,241	30,108	1 241	30,108	
100	(j) Oils ...	420	9	429	60,000	429	60,000	
173	(k) Earthenware ...	182	27	209	4,035	209	4,035	
267	(m) Other miscellaneous ...	2,044	52	2,096	2,41,582	2,096	2,41,582	
1,651	Total Miscellaneous...	4,493	89	4,582	4,15,089	4,582	4,15,089	

ABSTRACT FOR THE MONTH OF FEBRUARY 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	50,417	2	9	3,93,642	11	0	59,350	8	9	3,81,268	9	6
Tolly's Nullah	13,044	12	3	1,22,274	4	3	17,106	10	6	1,25,895	1	6
Total ...	63,461	15	0	5,15,916	15	3	76,457	3	3	5,07,163	11	0

CALCUTTA,
The 1*st April* 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 30*th March* 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo	Week ending Saturday, the 30th March 1889			Week ending Saturday, the 31st March 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo	Tollage
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	340	96,070	1,573	1,191	3,27,060	6,097
Jute	17	16,125	255	29	12,375	147
Firewood	143	69,325	1,032	239	1,05,125	1,587
Other articles	851	2,33,415	3,374	1 029	2,31,130	3,843
Total ...	1,351	4,14,935	6,234	2,488	6,75,590	11,674

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, on 1,513¾ miles open.

	Coaching Traffic. Number of passengers.	Coaching Traffic. Receipts.	Merchandise and Mineral Traffic. Weight carried.	Merchandise and Mineral Traffic. Receipts.	Other earnings (estimated).	Total earnings.	Traffic Train-miles run. Coaching.	Traffic Train-miles run. Merchandise.	Traffic Train-miles run. Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	242,936	2,79,209 4 0	25,82,959 30	5,38,872 9 0	17,008 8 3	8,35,090 5 3	66,774	92,670½	159,444½
Or per mile of railway	.	184 7 2		355 15 9	11 3 10	551 10 9	...	......	....
For previous 11 weeks of half-year ...	2,764,534	32,68,853 1 0	3,04,90,082 0	66,19,688 1 4	1,71,711 9 5	1,00,60,252 11 9	716,344½	1,055,894	1,772,238½
Total for 12 weeks ...	3,007,470	35,48,062 5 0	3,30,73,041 30	71,58,560 10 4	1,88,720 1 8	1,08,95,343 1 0	783,118½	1,148,564½	1,931,682½
Comparison.									
Total for corresponding week of previous year ..	237,160	2,82,951 11 7	27,78,312 0	6,48,781 6 7	19,333 3 9	9,51,066 5 11	63,816	99,629	163,445
Per mile of railway corresponding week of previous year		186 14 9	... ..	428 9 6	12 12 4	628 4 7	......	......	.....
Total to corresponding date of previous year ...	3,247,722½	38,26,768 0 6	3,37,81,556 0	79,87,996 0 7	2,80,277 3 8	1,20,95,041 4 9	795,103	1,265,571	2,060,674

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th March 1888. Mean mileage worked.	Receipts.	Per mile worked.	Receipts for week ending 23rd March 1889. Mean mileage worked.	Receipts.	Per mile worked.	Total receipts from 1st April 1887 to 24th March 1888. Mean mileage worked.	Total receipts.	Per mile worked per week.	Total receipts from 1st April 1888 to 23rd March 1889. Mean mileage worked.	Total receipts.	Per mile worked per week.	Total increase in 1889.	Total decrease in 1889.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	9,51,066	628	1,513¾	8,35,090	552	1,513¾	4,54,63,807	589	1,513¾	4,35,01,992	563	......	19,51,815

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, on 57¾ miles open.

	Coaching Traffic. Number of passengers.	Coaching Traffic. Receipts.	Merchandise and Mineral Traffic. Weight carried.	Merchandise and Mineral Traffic. Receipts.	Other earnings (estimated).	Total earnings.	Traffic Train-miles run. Coaching.	Traffic Train-miles run. Merchandise.	Traffic Train-miles run. Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,938	8,654 10 0	46,699 30	2,635 14 0	35 14 0	11,326 6 0	1,942	452	2,394
Or per mile of railway	261	151 4 10	816 20	46 1 4	0 10 0	198 0 2	......	......	.....
For previous 11 weeks of half-year	134,499	75,783 12 0	3,02,894 0	19,066 1 0	391 5 10	95,241 2 10	20,316½	6,258	26,574½
Total for 12 weeks ...	149,437	84,438 6 0	3,49,793 30	21,701 15 0	427 3 10	1,06,567 8 10	22,258½	6,710	28,968½
Comparison.									
Total for corresponding week of previous year	12,196½	6,104 9 3	65,138 10	4,042 7 0	34 5 9	10,181 6 0	1,585	809	2,394
Per mile of railway corresponding week of previous year .	213	106 11 7	1,144 10	70 10 9	0 9 7	177 15 11	.. .	... ..	......
Total to corresponding date of previous year	186,563½	1,03,871 1 7	4,05,618 30	26,171 14 0	595 4 9	1,30,038 4 4	22,265	6,805	29,070

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th March 1888. Mean mileage worked.	Receipts.	Per mile worked.	Receipts for week ending 23rd March 1889. Mean mileage worked.	Receipts.	Per mile worked.	Total receipts from 1st April 1887 to 24th March 1888. Mean mileage worked.	Total receipts.	Per mile worked per week.	Total receipts from 1st April 1888 to 23rd March 1889. Mean mileage worked.	Total receipts.	Per mile worked per week.	Total increase in 1889.	Total decrease in 1889.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57¾	10,181	178	57¾	11,326	198	57¾	5,10,784	175	57¾	4,74,686	163	......	36,098

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,305	364 12 0	21,247 20	486 9 0	5 14 0	857 3 0	380½	113	493½
Or per mile of railway ...	..	30 6 4	.....	40 8 9	0 7 10	71 6 11	.....	......	...
For previous 11 weeks of half-year ...	28,341	4,791 14 0	1,88,303 20	4,137 2 0	134 1 8	9,063 1 8	3,751½	1,536½	5,287½
Total for 12 weeks ...	30,646	5,156 10 0	2,09,551 0	4,623 11 0	139 15 8	9,920 4 8	4,131½	1,649½	5,781
Comparison.									
Total for corresponding week of previous year ..	2,771½	469 6 6	16,295 30	284 12 0	5 12 6	759 15 0	360	133	493
Per mile of railway corresponding week of previous year	...	39 1 11	... ..	23 11 8	0 7 8	63 5 3	......	......	......
Total to corresponding date of previous year ...	35,827½	6,008 11 11	2,65,566 10	5,491 10 0	133 5 9	11,633 11 8	4,041	1,875	5,916

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1889	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
12	760	63	12	857	71	12	47,154	77	12	43,693	71	..	3,461

TARKESSUR BRANCH RAILWAY

Approximate Return of Traffic for week ended 23rd March 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs A P	Rs. A. P			
Total traffic for the week ...	21,883	5,895 5 0	11,021 0	431 4 0	7 0 0	6,333 9 0	897	71	968
Or per mile of railway	..	261 15 4	......	19 6 1	0 5 1	284 10 6	.....	....	.
For previous 11 weeks of half-year	227,973	58,114 1 0	1,05,884 0	3,758 4 0	74 14 10	61,947 3 10	9,959	676	10,635
Total for 12 weeks ...	249,856	64,009 6 0	1,17,505 0	4,189 8 0	81 14 10	68,280 12 10	10,856	747	11,603
Comparison.									
Total for corresponding week of previous year	19,187	5,067 4 1	8,005 0	404 1 0	8 11 0	5,480 0 1	902	66	968
Per mile of railway corresponding week of previous year .	......	227 11 10	... .	18 2 7	0 6 3	246 4 8	....	..	..
Total to corresponding date of previous year	256,405	66,419 1 0	1,04,139 10	3,753 4 0	94 15 6	70,267 4 6	10,711	1,037	11,748

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,480	246	22½	6,334	285	22½	2,63,496	232	22½	2,72,137	240	8,641	..

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 16th March 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	a149,432	76,110 0 0	5,20,140 0	79,730 0 0	13,960 0 0	1,69,800 0 0	22,272	23,352	45,624
Or per mile of railway	222	113 0 0	773 0	118 0 0	†4 0 0	235 0 0	... .	...	..
For previous 10 weeks of half-year ..	1,462,849	7,58,709 0 0	49,63,740 0	9,18,582 0 0	1,69,254 0 0	*18,46,545 0 0	210,349	251,407	461,756
Total for 11 weeks .	1,612,281	8,34,819 0 0	54,82,880 0	9,98,312 0 0	1,83,214 0 0	20,16,345 0 0	232,621	274,759	507,380
COMPARISON									
Total for corresponding week of previous year	126,509	68,974 0 0	4,40,564 0	66,953 0 0	11,692 0 0	1,47,619 0 0	21,509	23,976	45,485
Per mile of railway corresponding period of previous year	196	107 0 0	683 0	104 0 0	†2 0 0	213 0 0	... ..	.... .	... .
Total to corresponding date of previous year ..	1,590,582	8,87,828 0 0	59,40,933 0	9,02,155 0 0	1,79,014 0 0	19,69,027 0 0	245,948	276,940	522,888

* Audited up to week ending 9th February 1889.
a Ka chrapara mela passengers.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway

Receipts for week ending 17th March 1888			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889			Total increase in 1888-89	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
615	1,47,619	229	673	1,69,800	252	645	93,18,739	289	673	*1,02,46,570	304	9,27,831	.. .

* Audited up to week ending 9th February 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ..	28,190	10,450 0 0	67,510 0	4,110 0 0	30 0 0	14,590 0 0	3,597	2,075	5,672
Or per mile of railway	225	84 0 0	540 0	33 0 0	.	117 0 0	..	.....	. .
For previous 10 weeks of half-year . . .	266,200	97,102 0 0	5,17,688 0	26,948 0 0	4,117 0 0	*1,28,167 0 0	35,030	19,157	54,187
Total for 11 weeks ..	294,390	1,07,552 0 0	5,85,198 0	31,058 0 0	4,147 0 0	1,42,757 0 0	38,627	21,232	59,859
COMPARISON									
Total for corresponding week of previous year ..	25,770	9,230 0 0	54,360 0	3,325 0 0	34 0 0	12,589 0 0	3,419	2,117	5,536
Per mile of railway corresponding period of previous year .	206	74 0 0	435 0	27 0 0	.	101 0 0	... .	......	.....
Total to corresponding date of previous year .	292,945	1,03,554 0 0	5,66,051 0	35,472 0 0	3,182 0 0	1,42,208 0 0	30,773	21,426	58,199

* Audited up to week ending 9th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,589	101	125	14,590	117	125	6,47,792	104	125	*6,88,903	110	41,111	

* Audited up to week ending 9th February 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,405	5,160 0 0	7,600 0	740 0 0	380 0 0	6,280 0 0	2,402	702	3,104
Or per mile of railway ...	191	60 0 0	88 0	9 0 6	4 0 0	73 0 0		.	
For previous 10 weeks of half-year	142,995	47,748 0 0	1,34,350 0	10,828 0 0	3,258 0 0	*61,834 0 0	23,638	6,548	30,186
Total for 11 weeks	159,400	52,908 0 0	1,41,950 0	11,568 0 0	3,638 0 0	68,114 0 0	26,010	7,250	33,290
Comparison.									
Total for corresponding week of previous year	12,908	†5,576 0 0	*a*12,217 0	896 0 0	30 0 0	6,502 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year	150	65 0 0	142 0	11 0 0	....	76 0 0	.		
Total to corresponding date of previous year	153,593	48,164 0 0	1,44,049 0	11,107 0 0	1,964	61,235 0 0	27,335	6,809	34,144

* Audited up to week ending 9th February 1889.
† Includes Rs. 1,186 for Post Office.
a Includes 6,800 maunds Revenue stores.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,502	76	86	6,280	73	86	2,87,173	67	86	*2,91,442	68	4,269	

* Audited up to week ending 9th February 1889.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 16th March 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,700	970 0 0	27,440 0	1,750 0 0	30 0 0	2,750 0 0	532	532	1,064
Or per mile of railway	71	25 0 0	722 0	46 0 0	1 0 0	72 0 0		...	
For previous 10 weeks of half-year . . .	29,090	11,733 0 0	2,59,030 0	16,833 0 0	1,702 0 0	*30,268 0 0	5,192	5,192	10,384
Total for 11 weeks .	31,790	12,703 0 0	2,86,470 0	18,583 0 0	1,732 0 0	33,018 0 0	5,724	5,724	11,448
Comparison									
Total for corresponding week of previous year	2,979	927 0 0	31,287 0	2,224 0 0	44 0 0	3,195 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	76	24 0 0	802 0	57 0 0	1 0 0	82 0 0	....	.	
Total to corresponding date of previous year	34,673	12,102 0 0	2,83,453 0	20,449 0 0	557 0 0	33,108 0 0	6,006	6,006	12,012

* Audited up to week ending 9th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 17th March 1888.			Receipts for week ending 16th March 1889.			Total receipts from 1st April 1887 to 17th March 1888.			Total receipts from 1st April 1888 to 16th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,195	82	38	2,750	72	39	1,20,149	62	38	*1,66,024	87	45,875	.

* Audited up to week ending 9th February 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 23rd March 1889, on 27¼ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,269	1,190 0 0	7,948 0	522 0 0	14 0 0	1,726 0 0	509	254	763
Or per mile of railway	120	44 0 0	292 0	19 0 0	1 0 0	63 0 0	......	......	......
For previous 10 weeks of half-year	37,421	13,834 0 0	1,52,518 0	8,657 0 0	181 0 0	22,672 0 0	5,454	5,252	10,706
Total for 11 weeks	40,690	15,024 0 0	1,60,466 0	9,179 0 0	195 0 0	24,398 0 0	5,963	5,506	11,460
Comparison.									
Total for corresponding week of previous year	3,097	1,056 0 0	21,129 0	1,167 0 0	57 0 0	2,280 0 0	509	636	1,145
Per mile of railway corresponding week of previous year	114	39 0 0	775 0	43 0 0	2 0 0	84 0 0	......	....	.....
Total to corresponding date of previous year	40,612	14,879 0 0	2,28,916 0	12,054 0 0	307 0 0	27,300 0 0	6,108	6,413	12,521

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889			Total receipts from 1st April 1887 to 24th March 1888			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,280	84	27¼	1,726	63	27¼	93,393	69	27¼	99,639	73	6,246	......

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 23rd March 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A P	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	40,027	14,401 0 0	1,01,330 0	9,444 0 0	3,001 0 0	26,846 0 0	4,618	4,892	9,510
Or per mile of railway	147	53 0 0	371 0	34 0 0	3 0 0	90 0 0*	...	.....	...
For previous 10 weeks of half-year	444,[illegible]26	1,67,675 0 0	14,87,411 0	1,39,684 0 0	34,149 0 0	3,41,508 0 0	60,479	61,771	122,250
Total for 11 weeks	484 553	1,82,076 0 0	15,88,741 0	1,49,128 0 0	37,150 0 0	3,68,354 0 0	65,097	66,663	131,760
Comparison.									
Total for corresponding week of previous year on 259 miles open	39,118	15,348 0 0	2,07,045 0	24,117 0 0	3,959 0 0	43,424 0 0	5,986	8,222	14,208
Per mile of railway corresponding week of previous year	151	59 0 0	799 0	93 0 0	7 0 0	159 0 0*	.....	......	......
Total to corresponding date of previous year	512,008	2,08 163 0 0	25,08,334 0	2,79,316 0 0	36,480 0 0	5,23,959 0 0	78,960	101,949	180,900

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	43,424	168	273	26,846	98	252·45	17,95,181	142	265·82	16,17,857	122	....	1,77,324

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 16th March 1889	8,369
Corresponding week last year	9,437
Decrease	1,068
Receipts from 1st January to 16th March 1889	84,041
From 1st January to 17th March 1888	87,249
Decrease	3,208
	Miles.
Miles open week ending 16th March 1889...	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 16th March 1889...	164 1 7
Corresponding week last year	185 0 7
Decrease	20 15 0

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 3rd April 1889.

REGISTERED No. 29.

No. 15 of 1889.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, APRIL 10, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 *and* 25 *Vict., cap.* 67.

THE Council met at the Council Chamber on Saturday, the 30th March, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General*.

The HON'BLE H. J. REYNOLDS, C.S.I.

The HON'BLE C. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARI GHOSE.

NEW MEMBERS.

THE Hon'ble Shahzada Mahommed Furrokh Shah and the Hon'ble Dr. Rash Behari Ghose took their Seats in Council.

STATEMENT OF THE COURSE OF LEGISLATION.

THE Hon'ble the President said:—"I believe I am following the usual course in making a brief statement regarding the course of legislation which I think should be laid before the Council. I ought to begin by apologising to you for calling you together at this late period of the Session, at the end of March, with five Bills on the list, when you have been attending here without having any work to do in the way of legislation during the whole of the cold weather. But circumstances connected with the Bills have put me in such a position during the whole of these months that I had absolutely no Bill which I could bring before you, and every one of these Bills, as it happened, has been returned to me by the Government of India only within the last week. In the case of some of them this was due to the rule, with which you are all probably acquainted, that those Bills which have to be sent home to the Secretary of State have to remain in abeyance a couple of months in order to give him an opportunity of expressing any views he might have, with power, in case no reply comes from him within that time, to proceed to legislation. In reference to others there has been a continuous correspondence with the Government of India, and the shape legislation ought to take has only been practically settled within the last week or two. That, gentlemen, is my explanation and apology, but at the same time I must express my regret that I have called you together at the hottest period of the year to ask you to undertake the work of going on with these Bills

"I may as well deal with the Bills one by one and explain, as far as I can, what my own personal views are as to the progress which we are likely, or which we ought to, make in regard to them. The first Bill on the list is in the hands of the Advocate-General, and it is a Bill for the protection of the rights of fishing in private fisheries. The history of this Bill I propose to give at some little greater length than in regard to the others, as it is one of some considerable importance. It had its origin in a memorial which was sent up to the Government of Bengal last year by the British Indian Association, supported, besides, by a numerous and influential body of zemindars, both European and Native, outside that Association. The memorial was to the effect that an exclusive right in fisheries had always been possessed by zemindars, and the income from these exclusive rights were included in their assets on which the permanent settlement was assessed and on which revenue was levied; but that these exclusive rights which they had always been in the habit of freely exercising, and from which they derived a very considerable income, were now jeopardised by a series of decisions of the courts—decisions which, though they may not have changed the law, yet brought into prominence a reading of the law which left the zemindars without adequate protection, and in consequence of which the memorialists desire that the Government should legislate with the view of securing their rights. On receiving the memorial the Government of Bengal referred it to the Board of Revenue, with the view, if possible, of getting reliable figures to give something like an adequate idea of the value of the interests to be protected. The result of that reference has not been altogether satisfactory as far as getting anything like correct figures is concerned. But it had this effect that we have been able to obtain both from the Board of Revenue and the other officers consulted, who were the leading Commissioners of Divisions, very decided views as to the exceeding importance of the interests to be protected and the absolute necessity of doing something to protect them. I shall not attempt to go into details in regard to the legal aspects of the case, as these will be laid before you in a very much more efficient way by the Advocate-General; but, briefly put, I may say that whereas the opinion ordinarily held, doubtless by the outside public and certainly by many officers of the Government, was that in private fisheries of all kinds any one taking fish without permission might be punished, yet these decisions made it perfectly clear that that view was an incorrect one, that except where the fish might be enclosed in a tank or other water, in which there was no outlet to enable them to escape, there was no possession such as would enable the person who took them unlawfully, to be punished for theft or criminal trespass. The meaning of that was that there was no punishment or remedy to be found in the criminal courts. Of course no wrong was without its remedy, and people might go if they liked to the civil courts, but I need

not tell you that the idea of referring people to the civil courts for their remedy in a case where their fish had been stolen was more than a mockery. It was under these circumstances that the memorialists addressed us. I shall read just one or two paragraphs from the memorial.

'The result of these decisions, however correct they may be in law, has been to put in imminent jeopardy the rights of landholders and of the Government to fisheries in waters in communication with tidal streams and navigable rivers which, as above shown, are most valuable rights. An impression has gained ground in certain districts that where a julkur is not enclosed, the landholder has no right to the fish, and landholders' complaints of wrongful abstraction of fish from julkurs situated within their estates have since been generally dismissed.

'Your memorialists humbly insist that the right of landholders to julkurs situated within their estates and talooks, whether in the form of enclosed tanks, running streams, or large jheels and bheels in communication with tidal rivers, is unquestionable, and has been recognized in a long series of decisions.

'This right was recognized by the Mohammedan rulers of the country; and the British Government, in making a permanent settlement of the land revenue of these provinces, expressly incorporated in that settlement the rents and profits realizable from this description of property.'

"They go on afterwards to say—

'It would be worse than useless for private landholders, or even for the Government to endeavour to protect their rights by bringing civil suits against persons infringing rights of fishery by unlawfully taking fish, and your memorialists respectfully urge that it is imperatively necessary for the protection of these rights that such persons should be punishable summarily under the criminal law.

'It has been ably argued, and with much learning, that the taking of fish under such circumstances is not theft; but however that may be, it has generally, as shown above, been looked upon and treated as theft in this country, and your memorialists are convinced that no punishment, short of the punishment of theft, will be sufficient to deter offenders and afford adequate protection to the rights of your memorialists and of the Government.'

"After hearing from the Board of Revenue and the local authorities on the subject, the Government of Bengal applied to the Government of India recommending legislation. That Government assented and asked that the draft Bill be sent up to them. The grounds on which we made our recommendations were these:—

'There can be little doubt, therefore, that the value of julkur property will be seriously impaired, if not altogether destroyed, when the real state of the law becomes generally known and when the mass of the people realize that violation of julkur rights is not a criminal offence; for the people likely to commit such violations belong to the poorest classes, and it would be mere waste of money to sue them in the civil court. The result is that proprietors and lessees of julkurs have practically no remedy when their rights are attacked.

'The zemindars are clearly entitled on equitable grounds to ask that Government should provide adequate protection for property, from which it derives a considerable revenue, and the special character of which has been recognized throughout the entire period of our rule in India. The argument from expediency is equally strong. There can be no doubt that, when the state of the law gets generally known, there will be constant attempts made everywhere to fish in private fisheries without the consent of the owners. The landholding classes, if they find that the law does not afford them adequate protection in such cases, will take other means to protect right to which they attach great value, and there will certainly be many cases in which violence will be used on one or both sides if the law is left as at present. The economic argument is also not without considerable weight, that unless these rights are protected, there will be a serious diminution in the fish supply, owing to the wanton destruction and waste of fish which will result. From this point of view, the promiscuous killing of fish by a crowd of persons is much to be deprecated; for while the benefit to the poorer classes could only be temporary, it would certainly be purchased at the cost of a diminution of the fish supply in the future.'

"The Bill was sent on to the Government of India, with a suggestion on my part that, as probably the same difficulties would be found in other provinces besides Bengal, the Government of India themselves might be willing to legislate on the subject in the Viceroy's Council, but upon that point their reply was in the negative, as the peculiar state of circumstances existed principally in Bengal and Assam. They, therefore, recommend that legislation should be undertaken in this Council. The Advocate-General will tell you what the details of the Bill are, but the punishment provided is very lenient, as for the first offence a fine of Rs. 50 will be inflicted, and for subsequent offences imprisonment for one month and a fine of Rs. 200. I do not think there will be much difference of opinion as to the propriety of this legislation

on principle, but I have no doubt there will be certain difficulties with regard to the definition of private fisheries, and it is to this point that the Select Committee will have to devote considerable attention. The Bill, I trust, will be brought in next Saturday and referred to a Select Committee. Its subsequent progress will of course depend upon the view the Select Committee will take of it. The question is one of some importance, and the sooner protection can be given to the zemindar, I think you will all agree, the better. So much for the Private Fisheries Bill.

"The next is a Bill 'to consolidate the Calcutta and Suburban Police Superannuation Funds.' This is a small technical matter, which Sir Henry Harrison will explain to you, and on which I need not dwell.

"The next Bill is one of more considerable importance. It is in its inception a purely consolidating Bill to bring into one form or Act the law which at present runs through several, and opportunity will be taken to make several alterations and changes. There has been considerable discussion as to whether a considerable alteration should not be effected in the financial position of the Port Commissioners; but this having been negatively decided by the Government of India, the changes really made in a substantive part of the law are not very considerable. This Bill will also be referred to a Select Committee next Saturday, but its future progress is not a matter of immediate urgency, and I shall not urge you to press on with it beyond what the Select Committee thinks fit to advise.

"The next Bill 'for the appointment of a Mohammedan Burial Board in Calcutta' is the outcome of the enquiries and cogitations of a Committee appointed last year to take into consideration the bad state of the many Mohammedan burial-grounds and the difficulties that are to be met with in controlling and in finding more room for the burial of Mohammedans in new burial-grounds. The Committee was a very strong one, for it had representatives of the Mohammedan community as well as officers of the Government and Municipality in it, and their recommendations have been embodied in this Bill which Sir Henry Harrison will explain to you.

"The last Bill is one which I shall have to explain to you at a later period of this morning's business. I may say now that it had its origin in a serious outbreak of cholera last year, in which nearly 600 coolie emigrants to Assam died, and which led to the Local Government putting an end altogether to coolie emigration from some of the labour districts. I will reserve further details till I ask for leave to introduce it; but I wish only to mention now that I look upon this Bill as the most urgent one we have on our list, because the cholera season is now on, and if anything at all is to be done it should be done quickly.

"I have only one thing more to say, and it is a subject which I approach with great regret. It is to inform you that this is the last day on which I believe we shall have the advantage of the mature counsel and experience of my hon'ble friend Mr. Reynolds, who has sat so long in this Council and has assisted it so ably. I am quite sure I am expressing not only my own views, but the feeling of all the Members of the Council in saying that it is with extreme regret we look to his departure, and both this Council and the Government generally will feel the severance of his connection as a severe loss to the public."

PRIVATE FISHERIES BILL.

The Hon'ble the Advocate-General moved for leave to introduce a Bill for the protection of the right of fishing in private fisheries. He said:—

"Private rights of fishery as opposed to public rights of fishery may be broadly classed under the following heads: the right of fishing in navigable rivers granted by the Government to private individuals. Rights of this description have been granted according to the law of this country, but have been discontinued since 1868. Secondly, the right of fishing in Government estates granted to private individuals; and thirdly, rights of fishery granted to zemindars on the assessment of revenue which they continue to pay. Civil suits may, no doubt, be successfully maintained for the infringement of private rights of fishery, and where injuries are threatened, or often repeated, I believe the Civil Court would grant an injunction. The remedy by civil

suits, however, is dilatory and expensive, and having regard to the class of persons, the poorer classes, who would be likely to infringe these private rights of fishery by fishing and taking fish, it may well be said that the remedy by civil suit would be a mere waste of money. Under these circumstances, it is evident that, in order to provide an effective remedy against the infringement of private rights, a remedy of a summary and coercive character should exist.

"On turning to the memorial of the British Indian Association, I find the following statement: "Under British rule, both before and after the passing of the Penal Code, Magistrates have been in the habit, in accordance with the popular view, of convicting of theft persons proved to have unlawfully taken fish," and I find the same view held by two officers of experience, one of whom is Mr. Smith, the Commissioner of the Presidency Division. In his letter of the 21st April, 1888, addressed to the Board of Revenue, he says:—

'To make the offence punishable as theft would be only to legalise what has been the uniform custom of the country until recent decisions have questioned the legality of the practice.'

"Mr. Lowis, Commissioner of the Rajshahye Division, in his letter of the 21st June, 1888, concurs in the same view of the matter. I have not been able to find that this was the law of this country at any time. I have not been able to discover a single case in the Nizamut Adawlut reports, and the Mohammedan law contains no provision constituting the taking of fish out of water which forms the subject of a private fishery a criminal offence. The reference made by the British Indian Association to the Hidaya in paragraph 2 of their letter does not touch the question.

That being so, I now turn to the decisions of the High Courts. These decisions have been carefully collected for the Bengal Government, and although most of them bear in the same direction, I shall merely refer to a few of them. In a case decided on 20th March, 1873, by Justices Kemp and Pontifex, it was held that the taking of fish from a public navigable river in which another has a right to fish is not theft, nor does the catching of fish in a navigable river render the person so doing liable to be convicted under the Penal Code. That case is reported in the 19th Vol. of the Weekly Reporter, Criminal Rulings, in page 47. I find in a Madras case of 23rd October, 1878, (Indian Law Reports, 5, Madras Series, 391, note) it was held that fish living in open irrigation tanks were not in possession in such a sense as to render their capture and removal a theft. In a Bombay case (Indian Law Reports, 10, Bombay, 193), where the accused were found fishing without permission in a municipal tank, it was held that they could be convicted of theft, as the tank from which the fish were taken was apparently an enclosed tank and the fish were therefore of restrained liberty and liable to be taken at any time according to the pleasure of the owner, and were therefore subjects of theft. Then a case came before Chief Justice Petheram and Mr. Justice Ghose, known as the Meherpore case, in which it was decided that fish in a *bhil* or natural lake was the property of no one, and until reduced into possession no property could be acquired by any one, and that the capture of such fish in a wild state could not be the subject of theft.

"Then, there was another decision of the same two Judges in July 1887, affirming the same principle; and lastly, there were two decisions of Justices Norris and Ghose, to the effect that fish in a public river could not be said to be the property of the person who may have the fishery right, and that where a tank was dependent on the overflow of a neighbouring channel which was connected with flowing streams for its supply of fish, and that the fish could leave it at pleasure, the taking of fish from such tank was not theft. Now the first decision of the Chief Justice and Mr. Justice Ghose in 1887 was a decision which broadly laid down that there could be no property in fish in a natural state and not restrained of liberty, and I would also point out that although in that case the fish were in a *bhil*, the *bhil* was fed by channels which communicated with natural streams on two sides Were it assumed in that case that at the moment of time when the fish were captured the *bhil* resembled a tank having no communication at that time with other waters, no conviction for theft in respect of the taking of fish would have been sustainable at the instance of the complainant, who had merely a fishery right in such *bhil*, the *bhil* itself and the water it contained belonging probably to the zemindar.

"Now an elementary principle of English law was laid down thus:—

'There is a principle of our law which will be noticed more fully in its proper place that, in general, no man can make title to animals *feræ naturæ*, for these while they remain wild are accounted *nullius in bonis* (or what amounts to the same thing) as the common property of mankind.' (Stephen's Commentaries, page 684.)

"The Roman law was substantially the same. Sander's Institutes of Justinian, p. 96:—

'Wild beasts, birds, fish, that is, all animals which live either in the sea, the air, or on the earth, as soon as they are taken by any one, immediately become by the law of nations the property of the captor, for natural reason gives to the first captor that which had no previous owner. And it is immaterial whether a man takes wild beasts or birds upon his own ground or on that of another, &c.'

"Deducing a principle from the nature of the subject itself, it appears to me that the elementary principle of law to which I have referred is of general application, applicable to this country as elsewhere. The Judges who decided these cases in the High Courts merely applied an elementary principle of law of general application. And if I may be permitted to say so, I think their decisions are sound and accurate. The case decided by Justices Kemp and Pontifex in 1873 seemed to produce no alarm, nor was it, as far as I know, the subject of any hostile criticism. But the later decisions in the Meherpur case and in one or two other cases have been objected to, and have been assailed with considerable warmth. I am prepared to admit that the Judges of the High Courts are not infallible, but I think those who endeavour to impeach the decisions of the highest tribunals of this country and the opinions of Judges of experience should put forward a strong case. Such a case might be made by reference to decided cases which contravene the decisions objected to, or by challenging the principle on which the decisions are rested, or by showing that other acknowledged and well-recognised principles apply to the subject itself. Now, those who have made objections have done nothing of the kind. As far as decided cases go, there are absolutely none that could be brought forward. With regard to contravening the principle upon which the Chief Justice based his decision, I may say that the proposition is too elementary and too well-founded to be controverted. No attempt was made to show that any other well-recognised principle of law applied to the case. Under these circumstances the objections, as far as I am aware, resolve themselves into irrelevant arguments, vituperative assertions, and an array of words which exhibit a confusion of thought as to the meaning of "property" and "possession," and demonstrate nothing beyond a want of familiarity with the subject under consideration.

"The propositions which have been laid down by the High Courts are summarised ably and tersely by Mr. Edgar. He says in his letter of 6th September, 1888, as follows:—'The law relating to this subject, as gathered from the series of judicial decisions given in Mr. Beeby's note, may be summarised as follows:—

'There is no remedy under the criminal law in the case of the infringement of julkur rights, except where the fish are taken from an enclosed tank in which they had been restrained from their natural liberty. The fact of fish being in a public river does not make the fish in it the property of the person who has the fishery right in such river, and nobody can be said to be in possession of them, as they are *feræ naturæ*. The right of fishing is not properly of such a nature that a man who infringes it can be said to commit criminal trespass. Fish in a tank enclosed on all sides, but dependent upon the overflow of a neighbouring channel for its supply of fish, are not restrained of their natural liberty at a time when floods are high, and are consequently under such circumstances *feræ naturæ*, and their capture is not a criminal offence. Wild fish in a *bhil* are not the property of any person till caught, nor are fish in a creek or in an open tank made for the purposes of irrigation. On the other hand, it is theft to take fish from an enclosed tank where fish are restrained of their natural liberty and are liable to be taken at any time by the owner of the tank.'

"The decisions of the High Court having disposed of the question of taking fish otherwise than from an enclosed tank, and pronounced it not to be theft, it follows that there can be no criminal trespass, viz. trespass done with the view of committing a criminal offence. In the same way all notion of criminal misappropriation disappear, because there must be something appropriated which was the property of some one. There being no property in the fish, it follows that a charge of criminal misappropriation does not lie.

"His Honour the President has already referred to the memorial of the British Indian Association, which appears to me to state the case of the

zemindars in a temperate spirit and to be supported by very fair reasoning, although I do not agree in some of the legal positions taken in it. This letter shows what I have adverted to, namely, that, in the present state of the law, there is no sufficient or efficient protection of private rights of fishery. It is therefore necessary that some coercive measure should be introduced by the Legislature for the protection of private rights of fishery; and that will be the object of the Bill I ask leave to introduce.

"The Bill will be a short one, and will be directed to three points, viz. to make the infringement of private rights of fishery punishable under the law, to make trespass penal under the same circumstances, and to prevent persons using contrivances and devices for the purpose of catching fish which they have no right to take. I think the Bill will be sufficient to effect the purposes in regard to which the British Indian Association has addressed the Government."

The Motion was put and agreed to.

POLICE SUPERANNUATION FUNDS BILL.

The HON'BLE SIR HENRY HARRISON moved for leave to introduce a Bill to consolidate the Calcutta and the Suburban Police Superannuation Funds. He said:—

"As His Honour the President has already stated, this Bill is a small one. It merely amends one or two sections in the existing law, and I can briefly describe the object of it. The Police Forces of the town and suburbs are both under the Commissioner of Police, but by law they are separate forces, and the funds for providing pensions for the lower grades of officers and men for each of these two forces have hitherto been separate funds, but as a matter of fact the two forces have been practically very closely allied to one another. It is natural that the superior officers of the Police have availed themselves sometimes of the services of the town police in the suburbs and *vice versâ*, and transfers of officers and men between the two forces have been frequent. Some time ago it was found that of the two Police Superannuation Funds, that of the town was apparently quite solvent, while that of the suburbs was falling into a state of insolvency. In a letter which I as Commissioner of Police addressed to the Government in 1886, I pointed out the condition of the two funds, and the reasons for the conditions in which they respectively were. The reason for the different conditions of the two funds was this, that every policeman drew his pension or gratuity from the fund of the Force to which he was attached at the time of his retirement, irrespective of the Force in which his services had been performed. It would probably have been more strictly correct if his services in each force had been counted up, and the pension or gratuity were drawn from the two funds in proportion to the term of his service in each Force. It had been assumed that there would be an equal quantity of give and take, but that had not been the case. In the suburbs the men were more unhealthy, and there was a larger proportion of retirements, and hence while the men drawing pensions from the Town Fund were only a fraction exceeding four per cent., those from the suburbs were more than nine per cent., and the gratuities paid were somewhat in the same proportion. It was pointed out that the fairest course would be to treat the two Forces in law, as they were in fact, as one and the same Force, and to amalgamate the two Superannuation Funds. I think satisfactory reasons have been adduced to show that this would involve no practical injustice to either Force, and after considerable correspondence between the Government of Bengal and the Government of India, it was finally decided that that was the proper course to adopt. The object of the present Bill was simply to unite and amalgamate the two Police Superannuation Funds."

The Motion was put and agreed to.

CALCUTTA PORT BILL

The HON'BLE MR. REYNOLDS moved for leave to introduce a Bill to consolidate and amend the law relating to the Port Trust of Calcutta. He said:—

"The Calcutta Port Trust is a Corporation which has not yet attained to the age of legal majority. It was established, as the Council is probably aware, under Act V of 1870, and is consequently 19 years of age. But if it is an infant,

it is a thriving and vigorous one. No one who remembers the condition of the river foreshore 20 years ago can refuse to the Port Commissioners the right to indulge a feeling of pardonable pride in the improvements they have effected. The reclamation of the river banks, the jetties, the tramway, the tea warehouse, the petroleum depôt, the improved light ships, the admirable charts of the river which have been issued, are all monuments of the energy and success with which the Port Commissioners have discharged the duties entrusted to them. They are now engaged upon the greatest work they have yet taken in hand—the construction of the docks at Kidderpore. This work is making excellent progress, and it may be confidently anticipated that it will prove a great financial and commercial success. The operations of the Port Commissioners have not been confined to the Calcutta side of the river, for on the Howrah side they have reclaimed a large tract of land, and have made an excellent road along the foreshore. And all these improvements have been effected not only without any addition to the charges upon trade, but with an actual lightening of them. Calcutta from its geographical position can never be a cheap port, the fees for pilotage and towage must always handicap this port when compared with Bombay, but the Port Commissioners have been able to reduce the pilotage charges, and to do away altogether with the port dues which were formerly levied. As a port due produces about Rs. 80,000 for each anna of the rate, the abolition of a four annas port due implies a relief to the shipping to the extent of about three-and-a-quarter lakhs per annum.

"Honour should be given where honour is due; and I therefore think it right to say that the success which has attended the administration of the Commissioners has been largely due to two individuals: to their first Chairman, Mr. Schalch, who laid down the lines of policy which the Commissioners have steadily followed, and to Mr. Duff Bruce, who was for 17 years the Vice-Chairman and Engineer of the Port Trust. But in bringing out these two names for special mention, I ought to add that their efforts would have had little result if they and their successors had not enjoyed (as I am happy to say they have enjoyed) the confidence and the co-operation of the Chamber of Commerce and of the mercantile community in general. Mr. Schalch may have been the head, and Mr. Bruce the right hand, but the backbone of the Port Trust is, and always has been, the Chamber of Commerce.

"The legislative charter of the Port Trust is Act V of 1870, but this Act was necessarily of a somewhat tentative character, as the establishment of a Port Trust in Calcutta was at first of the nature of an experiment. The experiment had been tried in another form by Act X of 1866, which vested the management of the Port in a Committee of the Calcutta Justices. The experiment in this form proved a failure, and hence it was natural that the Act of 1870 should have been somewhat cautiously worded, and should have contained various restrictions But as the duties and responsibilities of the Commissioners increased, and their administration was shown to be successful, the original Act of 1870 was supplemented by a number of amending Acts, all of which were in the direction of extending the powers conferred on the Commissioners. The most important of these are Act IV of 1880, which deals with the borrowing powers of the Commissioners; Act II of 1885, which authorized the construction of the Kidderpore Docks; and Act III of 1887, which introduced the elective principle into the constitution of the Trust.

"The result is that now we have altogether nine Acts dealing with the Port Trust of Calcutta, and I believe the Council will agree that the time has come when it is advisable, and indeed necessary, that these Acts should be consolidated. The Bill, as I have said, is in the main a consolidating measure, but occasion has been taken to introduce some amendments. I need not at this stage of the Bill go into details, but I should like to call attention to one or two of the more salient provisions of the Bill. I would first ask attention to the title of the Bill which in itself is an acknowledgment of the good work which the Port Commissioners have done. The title of this Bill is to be 'The Calcutta Port Act, 1889.' The title of Act V of 1870 is 'An Act to appoint Commissioners for making Improvements in the Port of Calcutta.' The improvements contemplated by that Act have now for the greater part been made, and the main duty of the Port Commissioners in future would not be to make improvements, but to manage and administer a port which has already been improved. The first Chapter

of the Bill relates to the constitution of the Port Commissioners, the number of whom it is now proposed to increase. I may remind the Council that by the original Act nine Commissioners were appointed, but it was very soon found necessary to raise the number to 12, and in 1881 it was raised to 13, with the object of adding a member to represent Howrah. In the Act of 1887 the number was still kept at 13, but it was enacted that two of the Commissioners should be natives. By that Act four of the Commissioners were to be appointed by the Chamber of Commerce, one by the Trades' Association, and one by the Calcutta Municipality; that made six; and seven were to be appointed by the Government, so that unless some of the elected members were natives, two of the number appointed by the Government must be natives. That restricted the choice of the Government to a very small number of persons, and it was desirable that the Port Trust should contain some one representing the Marine Department and also some representative of the Railways. Under this Bill it was proposed to increase the number to 15, consisting of a Chairman, a Vice-Chairman, seven elected members and six nominated members, and it was still provided that not less than two of the members should be natives. Of the seven elected members, four were to be elected as now by the Chamber of Commerce, one by the Trades' Association and one by the Municipal Commissioners of the town, and the seventh was to be elected by such body or bodies or firms representing the native mercantile houses, as the Lieutenant-Governor might direct. The Council would remember that this proposal was brought forward when the Act of 1887 was under discussion, but it was not then thought that the time had come for introducing a provision of the kind. The only other change proposed in the constitution of the Trust was the section which proposed that the Chairman and the Vice-Chairman should not vacate their offices at the end of two years, like the other Commissioners, who were appointed or elected, but should continue to hold office during the pleasure of the Government. The next Chapter of the Bill dealt with the borrowing powers of the Commissioners, and here no material changes were proposed. The debt of the Port Trust at present might be classified under four heads. First, there was the item of Rs. 17,65,000, which represented the value of the block made over to the Port Commissioners by the Government when the Trust was established in 1870. The principal of that amount was not repayable, but only interest at 4½ per cent. payable half-yearly. The second item was the amount of the unliquidated portion of the sum advanced by the Government to the Port Trust between the years 1870 and 1880, and which is being repaid by a sinking fund, under which the whole amount will be repaid in 30 years; the present amount was about 40 or 42 lakhs. The third item consisted of the public loans which had been raised, of which there were three, aggregating 60 lakhs. These were secured by debentures, which would be repaid at the end of 30 years. And the fourth item consisted of advances made by the Government for the construction of the Kidderpore Docks, the amount expended up to the present time being about 125 lakhs. The Bill proposed that the amounts due under these several heads by the Port Commissioners should be secured on the entire property and income of the Trust, that principle having been accepted when the Acts of 1880 and 1881 were passed. Some hon'ble members may recollect that when the Act of 1880 was passed, the wording of the Act was considered to be such that it gave to the Government and the Secretary of State some amount of advantage or preference for the recovery of the amount due to them as compared with the public creditor who might lend his money. How far that was really the case, I can hardly say. However, it was sufficient to make the raising of loans unsuccessful, and another Act was passed in 1881 making it perfectly clear that the Government and the Secretary of State would fall under the same category, and have the same rights, as any other creditor, and that was the principle adopted in framing this Bill.

"I do not think there is anything further of much importance that should be mentioned. A few provisions have been inserted in order to enable the Commissioners to give pensions to their servants and to define more clearly the position and duties of the River Police; also some sections relating to the mode of preparing the budget which would merely legalise the practice which has prevailed for many years, but which is not strictly in accordance

with the letter of the previous Acts; and there was also a provision defining the liability of the Commissioners in respect of goods whilst in their custody."

The Motion was put and agreed to.

MOHAMMEDAN BURIAL BOARD'S BILL.

The HON'BLE SIR HENRY HARRISON moved for leave to introduce a Bill to provide for the appointment of a Mohammedan Burial Board in Calcutta. He said:—

"As His Honour the President has already explained, this Bill is due to the report of a Committee which sat last year to inquire into the question of Mohammedan cemeteries. The Mohammedan community, as was well known, like the Christian community, disposed of their dead by burying, and as that community in and around Calcutta exceeds 200,000 souls, it was evident that the question of the burial of their dead was well worthy the attention of the Legislature. Hitherto, possibly owing to the wise policy of the Government to abstain to interfere as far as possible in all religious matters, no continuous action had been taken in regard to Mohammedan cemeteries, but the same cause which made the Government hold its hand had in fact paralysed the Mohammedan community, because they had no power to regulate the affairs of their own cemeteries, and it was quite in accordance with the wishes of that community that what I may call an enabling Act should be passed which would enable them by means of a Board of the Mohammedan community, assisted by some of the local officials, to control and regulate the affairs of their own public cemeteries. There are possibly over a hundred Mohammedan cemeteries of all kinds in Calcutta and the Suburbs. The greater portion of these are private cemeteries, and they are usually well looked after by their owners. But there are about twelve public Mohammedan cemeteries which are under no adequate control. The effect of the Bill would be that a Mohammedan Burial Board would be appointed which would have power to frame rules to control and regulate burials in these public cemeteries and charge fees, and though they would have a hard task before them, the effect would be very beneficial, as they would have the power not only to prescribe the conditions under which burials should take place, but also to extend the ground available for interment."

The Motion was put and agreed to.

EMIGRANTS' SANITATION BILL.

THE HON'BLE THE PRESIDENT moved for leave to introduce a Bill to provide for the sanitation of emigrants during their passage in Bengal to the labour districts in Assam. He said:—

"As I mentioned just now, the immediate urgency of this Bill is the serious outbreak of cholera which occurred last year, leading to more than 600 deaths among coolies, nearly all of whom were emigrants from certain districts. But that was not the only cause; and in order to explain the remoter reasons for the Bill, I shall have to go a little further back. You are all aware that, previous to the introduction of Act I of 1882, all emigration to Assam was controlled by the Government. It was penal to take or assist any coolies to emigrate except under certain specific restrictions. The recruiter who collected coolies was licensed, and before he was so licensed, enquiries were made into his character, and he was registered before a Magistrate, who knew where he could put his hand on him, and who also knew where he could put his hand on the contractor under whom he worked; and, similarly, the garden sirdar got his certificate from his employer, which certificate was registered before the Magistrate. Then, after the coolies were collected, they were taken to a depôt which was open to the Magistrate's inspection, and was subject to sanitary control. Whether the depôt was in Calcutta or elsewhere, it was constantly supervised and inspected. After being collected, the coolies were placed before the Magistrate of the district in which they were collected. They were detained there a short time by the Magistrate, and there they entered into contracts for labour. When this was done, they went up to Assam under the supervision either of a garden sirdar or of the contractor's people, and

in any case they went along a specific route. They stopped at certain specified places where sanitary arrangements were made, they were inspected and looked after, and, where needed, medical services were secured by the Government. The man in charge had a way-bill with the names and numbers of the emigrants, so that they could be traced and enquiries made all along their route, and their sanitation, at all events, was carefully looked after. That was the state of the law until Act I of 1882 came in. That Act maintained the old system practically without alteration in regard to these coolies who were collected by garden sirdars and licensed recruiters, and by contractors who were registered. But simultaneously with that system Act I of 1882 allowed another system to grow up. The framers put in a new section, to say that nothing in this Act should interfere with coolies going up to Assam otherwise than under this Act. Unquestionably the framer of this Act looked forward to a number of free coolies finding their way to Assam, and who, when they got up there, could give their labour to whomever they chose, or, if they did not like to do so, could come back again, and who, to a certain extent, might take advantage of what is termed 'haggling in the market' for what wages they wanted. If the vista which rose before the view of the framers of the Act had been a real one, if what they foresaw had actually come to pass, and a number of free coolies had found their way up, it would have been pleasant for the coolies, it would have been pleasant for the Government, it would have been well for Assam, and it would have been the first step towards getting rid of a penal Act. But what did occur has been the reverse of what the framers of the Act expected. They wanted to get rid of middlemen, the recruiter and contractor, who collected these coolies. They wanted to get rid of these men, and also no doubt to get rid of the expenses which that system involved. But what has happened? The contractor remains, and he is neither licensed or known to the Magistrate; the recruiter remains, and he is not registered or licensed, and no enquiry into his character made; anybody can go about to do the business, and the natural result is that it has gravitated to the lowest and worst possible characters. The coolies collected under this system are 'free' coolies; they are lodged in the recruiter's depôt: this depôt is not inspected, nor is it under the Magistrate's control, and the coolies may be here to-day and in another place to-morrow. No one has power to supervise them. There is not that opportunity which the Magistrate ought to have of enquiring who the recruiters are, or who their coolies are, and to all intents and purposes they remain outside the control and supervision of the Act. There is no possibility of protection, and there is no sanitary regard for them. Thus they are at the mercy of the recruiters and sirdars, and when once collected they are carried off to Assam without any more sanitary supervision than that of any ordinary passengers.

"The difference between them and the ordinary passengers is that they go in hundreds and have to stay wherever the contractor's men wish to stay; they cannot easily escape, their communications with the outer world are, to a great extent, cut off, and if cholera breaks out among them they are helpless. As I said before, cholera broke out among them last year. Advice was asked for and was received from the Sanitary Commissioner and from the Superintendent of Inland Emigration. Under their advice the officers of Government used what powers they had to examine and control the sanitary condition of the depôts wherever they were found, and some arrangements were made by the Government railways for providing medical attendance and sanitary supervision of the coolies on their railways; but these executive arrangements had but little legal basis and were at the best insufficient, and ultimately the flow of emigration had to be stopped entirely both from Ranigunge and from Chota Nagpur. It was in July last that I addressed the Government of India on the subject. The sanitary condition of affairs was the urgent and immediate need; but I also took the opportunity, perhaps unfortunately, of suggesting that the matter of the registration and licensing of these middlemen and agents should be taken up and dealt with by the Legislature at the same time. The result of my bringing the two subjects together in the same letter, and recommending legislation on both of them, was that the question of the registration and supervision of middlemen, which necessitated unquestionably the alteration of Act I of 1882, was referred to the Chief Commissioner of Assam, and after some correspondence was postponed to be dealt with when the report

of the Chief Commissioner should be received as to the working of the Act generally with the view of considering what alterations in Act I of 1882 were necessary. This discussion has practically taken up a good deal of the last part of the current year. In the meantime the sanitation part of the subject was for the time being postponed. Finally, I proposed that the Government of India might approve of a temporary Sanitary Act which might bring all middlemen taking free coolies to Assam under the same rules as those which now apply to garden sirdars and their recruits.

"I ought to have mentioned before that, whereas, two years after Act I of 1882 was passed, the number of coolies who went up the Brahmaputra valley under registration, that is to say, under the contract section of the Act, was about 13,000: the number of those who took advantage of the new section was in 1884 about the same number, viz., 12,000. Gradually, however, the free coolies, as they are called, as might be expected, gained very largely over the contract coolies, that is to say, the advantage of not being put under any supervising or controlling power, and of putting your coolies under contract on arrival at Dhubri instead of here in the district, is obviously found more convenient to those who collect coolies than to have them registered at the place of collection and carried on under the supervision and control of the Act; so that at the present day something like 85 per cent. of free coolies arrive not under the control of the law. During the last year the number of coolies recruited under the supervision section was 3,800, whereas the number of free coolies was 21,800; in other words, the free coolie system is rapidly displacing the other one, and I think I have sufficiently shown that all the conditions require them to be brought under sanitary supervision just as much as coolies under contract, and fully justify the measure which I ask for leave to bring in. As I have said, I sent up a suggestion to the Government of India this year for bringing them under the same rules as garden sirdar-coolies, and after a little consideration the reply from the Government of India was that this would involve a distinct alteration of Act I of 1882 which this Council is powerless to pass, and they suggested instead that the Bill should take another shape, that is, the shape in which it has been now drafted, which they assure me is within the scope of this Council. They have sent up a sketch of the Bill in order to show the shape which it might take without encroaching upon the special power reserved to the Viceroy's Council. The Bill really requires the Lieutenant-Governor to make rules for all necessary sanitation. I propose, if the necessary power of this kind is given me, to exercise it by merely taking the rules as they now exist with regard to garden sirdars, and by making the necessary alterations and bringing the two classes as closely as possible under the same sanitary supervision. The Bill does not go beyond sanitary supervision, and under the circumstances it is just as well it does not. I am very anxious that the whole subject should be very carefully considered, for if any general Bill is passed it must be passed in the Viceroy's Council, and not in this, but in the meantime I feel there is a very urgent and serious responsibility laying upon us not to allow the cholera season to pass without at least doing all in our power to check the grievous mortality and the sufferings to which I have alluded, and now it is my duty to ask you to assist me by allowing me to introduce the Bill which will be laid before you next week with the necessary papers on the subject."

The Motion was put and agreed to.

The Council adjourned to Saturday, the 6th April, 1889.

CALCUTTA; } *The 4th April*, 1889. }

C. H. REILY,

Assistant Secretary to the Govt. of Bengal, Legislative Dept.

WORKING OF THE INLAND EMIGRATION ACT, I OF 1882, IN CHITTAGONG.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Calcutta, the 3rd April, 1889.

RESOLUTION.

READ—

Memorandum No. 246GM—IX-5, dated the 9th March, 1889, from the Commissioner of the Chittagong Division, and enclosed report from the Magistrate of Chittagong, on the working of the Inland Emigration Act I of 1882 during the year 1888.

The number of labourers employed under the Act in Chittagong, which has been decreasing for many years, fell during 1888 from 433 to 257, the diminution being due to the growing and laudable preference of employers for free labour. No coolies are entered as imported during the year, and only 82 executed local contracts. There were as many as 36 desertions with 13 cases of imprisonment, and the Magistrate of Chittagong states, in explanation of the large proportion which these figures bear to the return of labourers employed, that "the reasons for the unusual increase of the number of desertions, convictions of labourers, and cancelment of their contracts may be ascribed to the fact that a considerable number of free coolies struck on one large garden on which they had been living and working and went and executed local contracts with another employer, but afterwards they changed their mind and left the garden of the latter; according to him they were enticed away from him by their former master." The work of inspection was very inefficiently performed, and under the circumstances the statements in the report as to the good treatment of labourers must be taken as founded rather on the general knowledge of the Magistrate than on any special experience gained during the year. The Lieutenant-Governor has no doubt that in Chittagong the small and diminishing minority of coolies bound by contracts under the Act are treated exactly as the free labourers with whom they work.

2. The report is of interest as being the last of its kind which will be submitted for a complete year in this Province, the system of statutory contracts having been abolished in Chittagong by order of Government, with effect from the first day of the current month. The present report affords further evidence that such an exceptional system is not necessary in that district, where the conditions of labour are not different from those prevailing in other parts of Bengal. The penal contracts, provided originally to meet the case of the importation of workmen from a distance at the cost of employers, appear to have been used of late to bind local labourers, occasionally obtained from a neighbouring garden, with a strictness altogether unnecessary, one result being that a considerable proportion of them (this year more than 5 per cent.) were sent to jail for offences unknown to the ordinary law. That no great advantage accrued to the employer from the system is suggested by the fact that 14 per cent. of the labourers under statutory contract deserted during the year.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 6th April 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Divn.			
1	Burdwan April 6, '89	Nil	Weather—hot and dry. Estimated outturn of sugarcane and *til* 12 and 10 annas respectively. Price of rice has risen at Culna to 14 seers per rupee, elsewhere stationary. No sowings. A very small area ploughed. Outbreak of cattle pox reported from Cutwa and Culna sub-divisions.
2	Bankoora „ 6, '89	Nil	Weather—hot and sultry. *Khosta til*, indigo and cotton doing well. Rain wanted for ploughing. No change in prices.
3	Birbhum „ 6, '89	Nil	Weather—hot and dry. No crops on the ground now, except *til* and a little cotton. Rain would be most useful for ploughing.
4	Midnapur „ 6, '89	Nil	The rain-clouds have passed off, and the weather has become hot very rapidly. The *boro* crop requires rain, and there is not enough water in the canal to supply the irrigable area. In the Tamluk sub-division the *boro* crop is expected to be at least a twelve-anna one.
5	Hugli „ 6, '89	Nil	Weather—seasonable. *Boro* rice, of which there is a small quantity, is suffering from drought. Tobacco and garden crops are doing well.
	Howrah „ 8, '89	Nil	Weather—hot. Slight hail in Domjur on the 23rd ultimo. *Boro dhan* promises well.
	Central Districts.		
Presidency Divn.			
6	24-Perghs. April 6, '89	Nil	Weather dry and sultry. Harvesting of *rubbi* crops over; outturn estimated in some of the sub-divisions between 10 and 11 annas. Rain much wanted. Prices of food-grains range from 14 to 16½ seers per rupee.
7	Nuddea „ 6 '89	Nil	Weather—days hot; nights comparatively cool. Harvesting of *rubbi* completed; outturn of linseed, tobacco and gram about 10 annas. Rain somewhat urgently wanted for ploughing operations.
8	Khoolna „ 6, '89	Nil	Weather—hot during the day with rather high wind. *Boro* and *til*, which are the only crops on the ground, are said to be suffering in some parts for want of rain.
9	Jessore „ 6, '89	Nil	Weather—hot and dry. No crops on the field. Jute and *dhan* sowings being deferred for want of rain. Want of it becoming urgent.
10	Moorshedabad „ 6, '89	Nil	Weather—hot and a little cloudy. Lands are being prepared for *aus*, but rain is much wanted. *Rubbi* harvesting finished; 12 annas outturn reported from the Jangipore sub-division.
Rajshahye Divn.			
11	Dinagepur „ 6, '89	Nil	Westerly winds changed to easterly. Weather hotter than usual. Outturn of sugarcane 14 annas. Jute and *bhadoi* being sown.
12	Rajshahye „ 6, '89	Nil	Weather—very hot, but seasonable. Outturn of wheat, pulses, mustard, linseed and *cheena* 10½ annas on an average. Sowing of jute, *boro* paddy, and *til* going on. Sowing of *amun* stopped for want of rain. Rice sells at 16½ seers per rupee.
13	Rungpur „ 6, '89	Nil	Weather—extremely sultry. Germination of early rice is hindered by the continued absence of rain. Jute sowings also retarded owing to the same cause. Harvest prospects will be poor if rain does not fall in the course of the next week or so.
14	Bogra „ 6, '89	Nil	Weather—very dry. Mornings cool; days hot. *Khesari*, peas, linseed, barley, wheat and gram are being harvested, with an outturn of 10 to 12 annas. Jute and *aus* rice are being sown in some places. Rain badly wanted, and both preparation of land and germination of seed retarded. Price of rice steady.
15	Pubna „ 6, '89	Nil	Weather—hot and dry. Outturn of tobacco 8 annas, and of mustard 7 annas. Sugarcane not coming up well, and *boro dhan* suffering for want of rain. Prices of food-grains rising.
16	Darjeeling „ 6, '89	Nil	Weather—hot and sultry. State and prospects of crops fair, but more rain wanted.
17	Julpigoree „ 6, '89	Nil	Weather—hot in day time and cool in the morning. West winds during day. Tobacco is being gathered; outturn estimated at twelve annas. Lands are being prepared for jute. Rain much wanted. Prices stationary.
	Eastern Districts.		
Dacca Divn.			
18	Dacca April 6, '89	Nil	Weather—very hot and cloudy at times. Cultivation of jute and *aus* and *amun* paddy going on slowly for want of rain, and the seeds already sown have not germinated except in low lands. Damage has been done to the crops for want of rain.
19	Furreedpur „ 6, '89	0·56	Weather—hot and dry. Rain is much wanted. Outturn of the *rubbi* crops is below the average—about 8 annas expected.
20	Backergunge „ 6, '89	Nil	Weather—very hot. Ploughing progressing in the *bhil* land for *aus dhan*. Rain is wanted.
21	Mymensingh „ 6, '89	Nil	Weather—somewhat cooler than in the preceding week. There has been rain in parts of the district, though not at head quarters. *Boro* rice is being cut; outturn about 14 annas. Rain is still wanted in many places for sowing of *amun* rice and jute.
	Kishoreganj	1·19	
Chittagong Divn.			
22	Chittagong „ 6, '89	Nil	Weather—hot. Rain is much wanted for the winter crops and for preparing the land for the *aus* crop. State of the winter crops is not good. Lands are being prepared for *aus* paddy. Prices are somewhat high.
23	Noakholly „ 6, '89	N	Weather—warm and sultry. Harvesting of *rubbi* crops nearly finished. Sowing of *aus* continues. Rain wanted.
24	Tipperah „ 6, '89	0·49	Weather—hot and seasonable. Sowing of jute and paddy going on. Eight annas of *aus dhan* and 4 annas of *amun dhan* said to have been sown.
25	Chittagong Hill Tracts. ...		Report not received.
	Hill Tipperah „ 6, '89	Nil	Weather—hot and cloudy with strong wind from the south. *Boro* paddy and chillies not doing well for want of rain. Rain is also much wanted for ploughing. Common rice selling at 18 seers per rupee.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.					
PATNA DIVN.	26	Patna	April 6, '89	Nil	Weather—hot with west wind. Harvesting of *rubbi* crops is almost completed; threshing is continuing. Agricultural stock sufficient. Fodder adequate. No marked fluctuations in prices of food-grains. Collection of opium completed.
	27	Gya	„ 6, '89	Nil	Weather—fair and hot. Estimated outturn of linseed 6 annas. Sugarcane planting in progress.
	28	Shahabad	„ 6, '89	Nil	Weather—hot with west wind. No estimate of opium crop received from the Sub-Deputy Opium Agent. Harvesting of *rubbi* crops continues. Sugar-cane being planted. *Cheena* doing well. Prices falling.
	29	Durbhunga	„ 6, '89	Nil	Weather—dry and hot; west winds prevailing. *Rubbi* harvest nearly completed. *Mung, dhan* and indigo being sown, but require moisture. Rain is much wanted. Prices stationary.
	30	Mozufferpur	„ 6, '89	Nil	Weather—hot west winds and dry. No sign of rain. *Cheena* and *mung* suffering from want of rain. Indigo plants damaged by caterpillars. A good shower would improve prospects greatly.
	31	Sarun	„ 6, '89	Nil	Weather—hot and seasonable. West winds prevailing up till the 4th. *Rubbi* nearly all harvested. Considerable damage done to indigo by caterpillars.
	32	Chumparun	„ 6, '89	Nil	Weather—hot in the day; mornings cool. Collection of opium finished, outturn a little less than was expected. *Rubbi* yield from 4 to 12 annas in the Sudder sub-division. Rain wanted for *cheena* on unirrigated land. Prices fairly stationary. Preparation for rice sowing progressing. Indigo suffering from catterpillars.
BHAGULPORE DIVN.	33	Monghyr	„ 6, '89	Nil	Weather—hot and bright. West wind generally prevailing. Harvesting of *rubbi* nearly finished. Indigo sown in the Begooserai sub-division.
	34	Bhagulpur	„ 6, '89	Nil	Weather—seasonable. *Rubbi* harvest drawing to a close; yield of cereals about 10 annas. *Mohwa* crop now secure. Rain would now be beneficial for *dhan* and *mung* sowings in low lands.
	35	Purneah	„ 6, '89	Nil	Weather—hot and dry. *Rubbi* is being harvested. Rice and jute cultivation is in progress. Rain is very much wanted.
	36	Maldah	„ 6, '89	Nil	Weather—seasonable. *Rubbi* harvest going on. An average outturn of 12 annas expected. *Boro* paddy doing fairly, but a shower of rain will do much good to this and to *bhadoi* crops which are being sown.
	37	Sonthal Perghs	„ 6, '89	Nil	Weather—hot west winds. Wheat 12 and 16 annas respectively in Rajmehal and Pakour and 6 annas in Deoghur. *Boro dhan* 16 annas in Rajmehal. *Mohwa* 16 annas, but in Doomka 13 annas. Linseed 20 annas in Pakour.
ORISSA.					
ORISSA DIVN.	38	Cuttack	„ 6, '89	Nil	Weather—mornings cool; days very hot. Ploughing of the *saradh* and *beali* lands has proceeded to the extent on the whole not more than 3 annas throughout the district owing to want of sufficient rain. *Dalua* is being reaped. The estimated outturn of this crop is 10 annas on an average.
	39	Pooree	...		Report not received.
	40	Balasore	„ 5, '89	Nil	Weather—days very hot. Rain much wanted. Harvest of *dalua* rice continues.
CHOTA NAGPORE.					
South-West Frontier Agency.					
CHOTA NAGPORE DIVN.	41	Hazaribagh	April 6, '89	Nil	Weather—seasonable, hot. Mango prospects very poor. *Mohwa* yielding well and prospects very good. Sugarcane promises well. No other crops. Prices stationary.
	42	Lohardugga	„ 6, '89	Nil	Weather—seasonable. No rain, but cloudy at certain places. *Head-quarters sub-division*:—Gram and wheat are doing badly for want of rain. No more fluctuations in the prices of food-grains. *Palamow sub-division*:—*Mohwa* crop damaged by rain, hail and cloudy weather; an outturn of 8 annas is expected. *Rubbi* being reaped; an outturn of about 2 to 3 annas expected. Prices have fallen a little owing to importations from Gya, Lohardugga and Surgoojah.
	43	Singhhoom	„ 6, '89	Nil	Weather—warm. *Rubbi* crops harvested. Outturn 6 to 12 annas. Prices stationary.
	44	Manbhoom	„ 6, '89	Nil	Weather—hot. Wheat, barley, oats and *arhur* are ripening. Outturn of *mohwa* is about 8 annas. Rice selling at from 18 to 21 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 9th April 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	Stock in hand as compiled on—												
	1st week of April 1888.	1st week of May 1888	1st week of June 1888.	1st week of July 1888.	1st week of August 1888	1st week of Sept. 1888.	1st week of Oct. 1888.	1st week of Nov. 1888.	1st week of Dec. 1888.	1st week of Jan. 1889.	1st week of Feb. 1889.	1st week of Mar. 1889	1st week of April 1889.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	10,07,000	9,43,000	8,66,000	7,07,000	6,45,000	5,87,000	3.63,000	3,31,500	3.29.000	3,98,000	7,77,000	12,77,000	12,67,000
Ooltadanga	1,64,200	1,42,900	1,43,300	1,34,400	1.10,400	96,100	76 200	65,600	68,500	76,300	71,400	80,200	87,100
Chitpore, Golabaree, Coomertoolr, Hatkhola, and Oulpy Ghât.	6,61,500	6,73,100	6,49,900	6,17,600	5.90,800	5,60.500	7.14.900	6,97.300	6.51,400	6,49,200	6,96,600	7,08,200	7,64,000
Pathuriaghatta, Posta, and Jorabagan.	5,000	4,000	4,000	3,700	4,000	3,000	2,000	3.000	2.500	4,000	3 500	2,000	3.210
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,96,600	1,44,700	1,44,500	1,32,800	1,08,400	89,800	1,03,300	95,700	98,100	1,06,600	1,26,600	1,37,400	1,48,100
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2.40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreswur, and Chandernagore.	12,842	13,210	15,687	14,456	51,646	34,012	27,945	24,310	22,206	22,530	14,924	20,493	19,792
Total ...	25,37,142	24,10,910	23,13,387	20,90,955	20,00,246	18,60,412	17,77,345	17,07,310	16,61,706	17,46,630	21,80,024	27,15,293	27,79,192
On Railway premises on both sides of the river.	22,345 (on 4th April 1888.)	8,290 (on 4th May 1888.)	7,458 (on 4th June 1888.)	7,624 (on 4th July 1888.)	2.255 (on 4th August 1888.)	5,027 (on 4th September 1888.)	14,112 (on 4th October 1888.)	10,475 (on 3rd Nov. 1888.)	7,865 (on 3rd Dec. 1888.)	11,491 (on 4th Jan. 1889).	15,074 (on 4th February '89.)	6,852 (on 5th Mar. 1889.)	23,414 (on 4th April 1889.)
On boats unloaded ... By Port Commissioners' returns.	46,846 (1st to 3rd April 1888.)	14,021 (1st to 3rd May 1888.)	36,672 (1st to 3rd June 1888.)	34,787 (1st to 3rd July 1888.)	52,644 (1st to 3rd August 1888.)	46,697 (1st to 3rd September 1888.)	36,343 (1st to 3rd October 1888.)	55,943 (1st to rd November 1888.)	41,600 (1st to 3rd Dec. 1888.)	49,005 (2nd to 4th Jan. 1889.)	44,921 1st to 3rd February '89.)	31,957 (1st to 3rd Mar. 1889.)	23,449 (1st to 3rd April 1889.)
On boats unloaded ... By Canal returns	85,659 (1st to 3rd April 1888.)	46,728 (1st to 3rd May 1888.)	25,540 (1st to 3rd June 1888.)	28,366 (1st to 3rd July 1888.)	38,091 (1st to 3rd August 1888.)	52,215 (1st to 3rd September 1888.)	81,787 (1st to 3rd October 1888.)	70,552 (1st to 3rd Nov. 1888.)	27,665 (1st to 3rd Dec. 1888)	1,24,374 (2nd to 4th Jan. 1889.)	1,43,475 (1st to 3rd February '89.)	80,850 (1st to 3rd Mar. 1889.)	36,713 (1st to 3rd April 1889.)
Grand Total of Stocks ...	26,91,992	24,79,949	23,83,057	21,72,732	20,93,236	19,64,351	19,09,586	18,44,280	17,38,836	19,31,500	23,83,496	28,34,932	28,62,748
Probable stock available for exportation by sea.	16½ lakhs	14½ lakhs	13½ lakhs	11½ lakhs.	10½ lakhs.	9 lakhs	8½ lakhs.	8 lakhs.	6¾ lakhs.	8¾ lakhs.	13½ lakhs	17¾ lakhs	18 lakhs.

STATISTICAL DEPARTMENT,
The 6th April, 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 31st MARCH 1899.

PRICES-CURRENT (retail) of Foo

Number.	DISTRICTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	RICE, BEST SC Present return.	RICE, BEST SC Next preceding return.	KANGNI OR KAKUN, ITALIAN MILLET. (Setaria italica.) Present return.	KANGNI Next preceding return.	KANGNI Corresponding return of last year.	GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer arietinum.) Present return.	GRAM Next preceding return.	GRAM Corresponding return of last year.
	BENGAL.														
	Western Districts.														
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	15 8	14 8	15 0	26 0	...	30 0	14 4	15 0	...	.	...	23 0	21 0	25 8
2	Bankoora	15 0	12 12	15 0	20 0	16 0	20 0	17 4	17 8	..	...	...	14 8	14 8	16 0
3	Beerbhoom*	.	..	...	...	..	...	...	...	...	...	...	...	..	...
4	Midnapore	10 0	10 0	15 0	40 0	40 0	40 0	14 0	16 0	..	...	.	{14 0 / 14 8	14 0 / 14 8}	17 0
5	Hooghly	...	13 0	14 0	...	...	...	10 0	10 0	...	..	...	16 0	13 0	19 0
	Howrah	Not available.			..	..	...	12 0	13 0	...	...	...	19 0	16 0	21 0
	Central Districts.														
	Calcutta	13 3	3 0	13 9	19 9	17 11	19 5	9 14	10 0	20 4	20 9	12 4	17 12	15 13	0 4
6	24-Pergunnahs	14 0	14 0	17 8	20 0	16 0	22 8	8 0	8 0	12 0	16 0	16 0	21 0	18 0	22 13
7	Nuddea	16 0	16 0	16 6	22 13	22 13	82 0	13 5¼	13 5	...	..	...	21 10	24 10	26 10½
8	Khoolna			...				13 0	14 0	...	...	...	10 8	10 8	16 0
9	Jessore	13 0	13 0	13 4	...			13 0	13 0	...	...	...	16 0	15 0	22 8
10	Moorshedabad	14 0	14 0	16 0	..		...	13 4	14 0	...	...	...	23 0	16 0	26 0
11	Dinagepore	12 12	11 4	18 0	10 0	9 9	21 0	15 8	17 0	...	...	...	12 12	12 4	15 12
12	Rajshahye	16 8	15 0	17 4	37 8	37 8	45 0	13 8	13 8	...	...	...	24 0	24 0	24 0
13	Rungpore	14 3	12 4	13 4		...	...	10 8	10 8	...	...	...	10 0	10 0	16 0
14	Bogra	13 8	13 8	15 0	...	..	.	15 0	13 8	...	...	...	16 14	12 0	15 0
15	Pubna	19 8	19 8	20 0				7 8	8 0	...	...	...	13 8	13 4	26 4
16	Darjeeling	6 0	10 0	10 0	10 0	10 0	11 0	6 0	6 0	...	...	...	10 0	11 0	11 0
17	Julpigoree	10 0	10 0	12 0	16 0	16 0	20 0	8 0	8 0	...	...	...	11 8	11 8	16 0
	Eastern Districts.														
18	Dacca	15 8	15 8	14 8	26 0	26 0	40 0	14 4	16 0	...	...	...	13 0	13 0	16 0
19	Furreedpore	20 0	16 0	20 0	20 0	20 0	40 0	10 0	9 0	...	...	...	16 0	16 0	13 0
20	Backergunge			.	.	.	.	12 0	13 4	...	...	...	15 1	12 13	13 0
21	Mymensingh	10 8	10 0	13 14	.	.	..	13 0	13 0	...	...	...	12 4	12 0	13 8

* Return not received.

A In sub-divisions retail prices of salt per rupee are :—Cutwa 10 seers, ... utwa ...
B In sub divisions retail prices of salt per rupee are Ghatal 10¾ seers, Tu...
C At Jehanabad retail price of salt 10 seers per rupee
C In sub divisions retail prices of salt per rupee are.—Barasut 9 seers, Bu... 10 seers.
D In sub divisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meh... 10 seers.
E In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 1... c...
F In sub divisions retail prices of salt per rupee are : Jhenida 9 seers, Magura 10 seers, Narail 9¾ seers, and Bongong 10 seers.
G In sub-divisions retail prices of salt per rupee are :—Lalbagh 9½ seers, Jungipore 10 seers, and Kandi 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 31st March 1889.

Indian-corn or Maize (*Zea Mays.*) Present return.	Indian-corn Next preceding return.	Indian-corn Corresponding return of last year.	Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*) Present return.	Arhar Next preceding return.	Arhar Corresponding return of last year.	Firewood. Present return.	Firewood Next preceding return.	Firewood Corresponding return of last year.	Salt. Present return.	Salt Next preceding return.	Salt Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Wholesale Salt Next preceding return.	Wholesale Salt Corresponding return of last year.	Districts.
															BENGAL.
															Western Districts
S Ch	S. Ch	S Ch	S. Ch	S. Ch.	S. Ch.	S Ch	S Ch.	S. Ch.	Ch. S.	S. Ch	S Ch.	Rs. a. p.	Rs. a p	Rs. a. p	
	No sale.		19 0	19 0	24 10	107 0	107 0	120 0	A 10 2	10 2	10 8	3 11 0	3 11 6	3 9 6	Burdwan.
21 0	20 0	32 0	18 0	18 0	20 8	80 0	280 0	320 0	10 0	10 0	10 8	3 14 0	3 14 0	3 11 0	Bankoora
..	...	...	...		...	..	...	..	...	.	...		..		Beerbhoom.
...	...	..	14 0	20 0	15 0	160 0	160 0	120 0	B 10 4	10 4	9 0	3 14 0	3 11 0	4 0 0	Midnapore
..	...	..	13 0	13 0	13 0	120 0	120 0	120 0	C 10 0	9 0	9 0	...	4 6 0	4 6 0	Hooghly
..	..	...	14 0	13 0	13 0	100 0	100 0	100 0	10 8	10 8	9 0	3 10 0	3 11 0	3 14 0	Howrah
															Central Districts.
...	15 10	12 7	17 10	16 8	18 4	98 9	98 2	95 0	10 5	10 5	10 6	3 9 6	3 9 6	3 9 5	Calcutta
...		.	19 0	18 8	21 4	18 0	18 0	90 0	C1 10 4	10 4	10 0	3 10 0	3 10 0	3 8 0	24-Pergunnahs
...	...	...	20 0	20 0	24 10	...	...	...	D 9 2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea
...	.	.	..	..	..	160 0	160 0	160 0	E 9 2	9 2	8 0	4 0 0	4 0 0	...	Khoolna
...	..	..	22 0	22 0	27 0	16[illegible]	[illegible]6	[illegible]00 0	F 9 2	9 2	9 10	4 0 0	4 0 0	4 2 0	Jessore
...	...	...	18 0	22 0	23 0	200 0	200 0	200 0	G 10 0	10 0	11 6	.	...	3 8 0	Moorshedabad
...	...		12 0	12 12	18 0	16 0	160 0	160 0	H 9 8	9 8	9 12	3 15 0	4 0 0	4 0 0	Dinagepore
..	...	...	22 12	24 9	16 0	240 0	240 0	240 0	I 9 9	9 9	9 0	4 0 0	4 0 0	4 0 0	Rajshahye.
.	. .	...	18 0	13 0	9 0	120 0	120 0	120 0	J 9 6	9 6	8 10	4 4 0	4 4 0	4 10 0	Rungpore
..	...	...	...	...	...	96 0	96 0	9[illegible] 0	8 13	8 4	8 4	4 4 0	4 5 4	4 5 4	Bogra.
..	...	...	21 0	23 4	26 4	200 0	200	200 0	K 9 2½	9 2½	9 12	4 0 0	4 0 0	4 1 6	Pubna.
20 0	18 0	20 0	...	...	...	12[illegible] 0	120 0	2[illegible] 0	L 7 0	8 0	8 0	5 0 0		...	Darjeeling
...	..	20 0	9 0	9 0	11 0	128 0	128 0	128 0	M 9 0	9 0	9 0	4 2 0	4 2 0	4 4 0	Julpigoree
															Eastern Districts
...	...	...	16 0	16 0	13 5	120 0	120 0	120 0	N 10 0	10 0	8 8	3 14 0	3 14 0	4 4 0	Dacca
...	.	...	13 0	1[illegible] 0	...	120	120 0	130 0	9 0	9 0	9 0	4 0 0	4 0 0	4 5 0	Furreedpore
...	..	...	...	...	...	1[illegible]0 0	1[illegible]0 0	120 0	O 0 0	10 10	9 4	..	...	3 12 0	Backergunge
.	...	...	...		.		..		P 9 8	9 8	9 8	4 0 0	4 4 0	4 2 0	Mymensingh

H In Thakurgaon sub division retail price of salt 8 seers per rupee.
I In sub-divisions retail price of salt per rupee are: Natt[illegible]re 9½ seers and Nowgong 8 seers 11 chittacks
J In sub-divisions retail prices of salt per rupee are :—Nilphamari 10 seers, Gaibanda 8 seers.
K At Sirajgunge retail price of salt 1 ½ seers per rupee.
L At Silliguri retail price of salt 9 seers per rupee.
M At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee
N In-sub-divisions retail prices of salt per rupee are :—Munshigunge 8 seers 14 chittacks, Naraingunge 10 seers.
O In sub-divisions retail prices of salt per rupee are : - Patuakhali 8 seers, Perozepore 9 seers, and Bhola 8 seers
P In sub-divisions retail prices of salt per rupee are : - Kishoregunge 8 seers, Attea 10 seers, Jamalpore 9½ seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and

Number.	DISTRICTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, best sort. Present return.	Rice, best sort. Next preceding return.	Rice, best sort. Corresponding return of last year.	I… Present return.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S.
22	Chittagong ..	11 0	11 0	11 8	..	...	...	12 0	12 0	14 0	16
23	Noakholly	... •	...	...	...	...	...	...	...	.	..
24	Tipperah .	12 8	12 8	12 8	..	.	.	15 8	16 0	17 8	18
25	Chittagong Hill Tracts	.			...	...	...	13 5	11 6¼	14 8½	14
	Hill Tipperah .	6 0	6 0	8 0	..	...	...	8 0	9 0	14 0	16
	BEHAR.										
26	Patna ...	17 8	18 0	20 0	24 0	22 0	30 0	11 0	11 0	11 8	15
27	Gya ..	16 8	15 8	17 8	32 0	21 0	25 0	9 4	9 0	10 0	15
28	Shahabad ..	15 8	14 8	19 8	20 0	25 0	28 8	9 0	9 0	13 0	15
29	Durbhunga	18 4	14 4	16 0	..	..	28 0	10 4	10 0	12 0	15
30	Mozufferpore	15 0	13 0	14 0	22 0	.	30 0	10 0	9 8	12 0	13
31	Sarun ..	16 0	16 0	17 0	24 0	25 8	27 0	8 8	8 12	8 8	14
32	Chumparun .	13 0	13 0	11 0	21 0	14 0	30 0	7 0	7 0	8 0	13
33	Monghyr ...	17 9	15 12	20 0	26 4	26 4	29 7	11 10	12 9	13 14	13
34	Bhagulpore .	16 10	15 12	15 2	20 3	15 2	30 6	12 10	13 14	16 6	14
35	Purneah ...	13 0	13 0	16 0	...	11 0	26 8	15 8	15 0	20 0	15
36	Maldah .	16 0	13 0	19 0	...	..		10 0	10 0	14 0	17
37	Sonthal Perghs.	11 8	11 4	11 0	.	.	.	14 0	14 0	16 8	16
	ORISSA.										
38	Cuttack .	13 2	13 2	15 12	..	.	...	10 8	11 13	10 8	17
39	Pooree .	11 13	11 13	14 7	...	...	...	11 13	11 13	17 1	15
40	Balasore ..	14 0	13 0	15 0	13 0	13 0	13 0	12 0	12 0	14 0	18
	CHOTA NAGPORE										
	South-West Frontier Agency.										
41	Hazaribagh ...	17 0	17 0	15 0	..	...	23 0	8 0	8 0	8 0	15
42	Lohardugga ..	14 0	14 0	15 12	16 0	..	28 0	13 0	13 0	15 8	15
43	Singbhoom ...	10 0	10 0	13 0	14 0	14 0	20 0	16 0	16 0	18 0	20
44	Manbhoom ...	14 0	14 0	14 0	30 0	...	32 0	15 0	15 0	15 0	22

* At …jpore and Kendrapara rice is procurable at 23 seers 10 chittack
Q At Cox's Bazar retail pr… …t salt 8 seers per rupee.
R In … b-divisions retail prices of salt per rupee are .—Buxar 10½ seers, Sasseram 10 seers, a
S In …ub divisions retail prices of salt per rupee are :—Madhubani 10 seers and Tajpore 10
T In …ajpore and Sitamarhi sub-divisions retail price of salt 10 seers per rupee.
U At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 9th April 1889.

Kangni or Kakun. Italian millet. (*Setaria italica.*) Present return.	Next preceding return.	Corresponding return of last year.	Gram, Chana, Chhola, Kadalay, or Sunaga. (*Cicer arietinum.*) Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	11 0	11 0	13 0
...	...	...	...	...	...
...	...	...	16 0	16 0	14 0
...	...	...	...	...	...
...	...	...	10 0	10 0	12 0
15 8	15 8	25 0	25 0	25 0	30 0
12 8	12 8	19 0	21 0	18 0	24 0
...	...	...	20 0	19 0	23 8
...	...	...	25 0	19 12	22 0
..	...	...	21 0	17 0	24 0
12 0	11 0	17 0	22 0	21 0	22 8
...	...	...	17 0	16 0	17 0
13 12	13 10	16 12	26 4	18 14	31 8
...	...	...	13 4	16 11	20 3
...	16 0	16 0	14 0	13 0	26 0
...	...	...	24 0	15 0	20 0
...	...	...	18 0	15 0	22 0
...	...	...	21 0	21 0	21 0
...	...	...	15 12	15 12	17 1
...	..	...	13 0	13 0	16 0
...	...	...	16 0	16 0	17 0
...	...	...	12 4	12 12	18 8
...	...	...	14 0	12 0	16 0
...	...	...	15 0	14 0	17 0

Station Bazars of the Districts of Bengal on the 31st March 1889—(concluded).

Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
															Eastern Districts—concluded.
...	...	...	...	...	...	108 0	108 0	110 0	Q 9 0	9 0	8 0	4 0 0	4 0 0	4 4 0	Chittagong.
...	..	.	...	...	..	..	...	...	...	...	...	... ..	.	..	Noakholly.
.	...	..	9 0	9 0	10 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 8 0	Tipperah
.	..	...	...	...	...	320 0	320 0	320 0	8 0	8 0	6 6	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts
...	...	...	8 0	8 0	12 0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah.
															BEHAR.
22 8	22 8	29 0	25 0	25 0	26 0	130 0	130 0	120 0	10 0	10 0	10 0	3 12 3	3 12 6	3 12 0	Patna.
...	...	...	21 0	19 0	20 4	200 0	200 0	160 0	9 2	8 12	9 8	4 2 0	4 2 9	4 4 0	Gya.
...	...	...	14 0	14 0	15 8	160 0	160 0	160 0	R 10 0	10 0	10 0	......	.. .	. ..	Shahabad.
21 6	19 12	27 0	20 9	19 12	17 0	160 0	176 0	160 0	S 11 6	11 0	10 0	3 14 5	3 10 2	3 10 3	Durbhunga.
20 0	19 0	27 8	22 0	20 0	20 0	160 0	160 0	160 0	T 10 0	10 0	10 0	3 12 0	3 12 0	3 13 0	Mozufferpore.
20 8	24 8	26 8	22 8	21 4	23 0	160 0	180 0	160 0	10 0	10 0	10 0	3 14 6	3 15 0	3 14 0	Sarun.
20 0	18 0	28 0	22 0	22 0	16 0	160 0	160 0	160 0	U 9 0	9 8	9 0	4 1 0	4 1 0	4 0 0	Chumparun.
19 14	16 12	31 8	21 0	21 0	21 0	147 0	147 0	126 0	V 9 8	9 8	10 8	4 0 0	4 0 0	3 5 6	Monghyr.
17 10	17 10	26 8	15 2	16 6	17 10	176 0	151 0	164 0	10 1	10 1	10 1	......	3 14 0	3 12 0	Bhagulpore.
	10 0	...	16 0	16 0	16 0	200 0	200 0	120 0	W 9 0	9 4	8 8	4 5 0	4 5 0	4 11 3	Purneah.
...	...	...	...	.	...	120 0	120 0	120 0	9 8	9 8	9 0	4 2 0	4 0 0	4 4 0	Maldah
18 0	18 0	34 0	22 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	9 8	4 3 0	4 3 0	3 15 0	Sonthal Perghs.
															ORISSA.
...	...	..	18 6	15 12	19 11	80 0	80 0	80 0	11 0	12 0	10 8	2 12 0	3 3 0	3 13 0	Cuttack.
...	...	...	11 13	14 7	17 1	80 0	80 0	80	11 13	11 13	10 8	3 6 0	3 6 0	3 8 0	Pooree
...	...	...	...	...	...	160 0	160 0	200 0	X 8 8	9 0	9 4	4 1 0	4 0 0	4 4 0	Balasore
															CHOTA NAGPORE
															South-West Frontier Agency
16 8	18 0	20 0	18 0	17 0	21 0	320 0	320 0	320 0	8 0	8 [illegible]	8 0	4 6 0	4 6 0	4 6 6	Hazaribagh.
16 8	17 8	...	17 0	16 0	best 18 0, ordinary 23 0	140 0	140 0	140 0	Y 8 12	8 8	8 1	4 8 0	4 3 0	4 10 0	Lohardugga.
...	...	...	15 0	15 0	20 0	200 0	200 0	320 0	7 0	8 0	8 0	5 8 0	......	4 12 0	Singbhoom.
32 0	32 0	30 0	18 0	14 0	21 8	200 0	200 0	200 0	Z 9 0	9 0	8 0	4 2 6	4 2 6	4 8 0	Manbhoom.

V In sub-divisions retail prices of salt per rupee are :—Begusorai 9½ seers and Jamui 9 seers.
W In sub-divisions retail prices of salt per rupee are :—Kishengunge 10 seers and Arrareah (at Ranigunge) 9½ seers.
X At Bhudruck retail price of salt 8 seers per rupee.
Y At Daltongunge retail price of salt 8·44 seers per rupee.
Z At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of

Number.	MARTS	Wheat.			Barley.			Ric
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 12 7	2 13 3	2 11 0	1 12 9	2 0 3	1 13 5	3 13 0
2	Sorajgunge ..	2 4 0	2 4 0	2 0 0	...	...	...	3 8 0
3	Dacca ...	2 8 0	2 8 0	2 11 0	1 8 0	1 8 0	0 15 6	2 12 0
4	Naraingunge	...	...	...	...	...	...	2 6 0
5	Chittagong ..	3 9 0	3 9 0	3 6 0	..	...	...	3 4 0
6	Patna ...	2 5 0	2 3 0	1 15 0	1 10 0	1 12 0	1 4 6	3 8 0
7	Balasore ...	2 10 0	3 0 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0
8	Pooree ...	...	...	...	...	...	.	...
9	Cuttack ...	3 0 0	3 0 0	2 6 0	...	...	...	3 10 0

CALCUTTA,
The 9th April 1889

OF 40 SEERS.

Marua or Ragi. (*Eleusine Corocana.*)			Kanoni or Kakun. Italian Millet. (*Setaria italica.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	[illegible]	...	1 8 0	1 8 11	3 0 0
...	...	...	...	...	...
...	...	...	...	...	...
.	...	...	...	...	...
..	..	...	...	...	...
...	..	...	2 8 0	2 8 0	1 8 0
	...	...	...	...	...
...	...	...	...	...	...
...	...	..	...	...	...

undermentioned Marts of Bengal on the 31*st March* 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 15 2	2 4 6	1 11 10	...	2 5 0	3 0 2	2 0 6	2 2 10	1 14 5	0 5 10	0 6 0	0 6 6	3 9 6	3 9 6	3 9 5	Calcutta.
3 4 0	2 9 0	2 6 0	...	...	...	...	...	...	...	...	...	3 13 0	3 13 0	3 14 0	Serajgunge.
3 0 0	3 0 0	2 7 0	...	...	...	2 8 0	2 8 0	2 15 0	0 5 0	0 5 0	0 5 0	3 14 0	3 14 0	4 4 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	4 0 0	Naraingunge.
3 8 0	3 8 0	2 14 0	...	...	...	...	...	...	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	4 4 0	Chittagong.
1 9 0	1 9 0	1 4 8	1 11 6	1 11 6	1 5 0	1 9 0	1 9 0	1 8 0	0 5 0	0 5 0	0 5 0	3 12 3	3 12 6	3 12 0	Patna.
2 14 0	2 14 0	2 6 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 0	4 4 0	4 0 0	4 4 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 8 0	Pooree.
1 11 0	1 11 0	1 11 0	...	...	...	2 0 0	2 5 0	2 0 0	0 8 0	0 8 0	0 8 0	2 12 0	3 3 0	3 13 0	Cuttack.

Published for general information.

P. Nolan,
Secy to the Govt. of Bengal.

Meteorological Report of the Province of

DISTRICT.	Representative stations.	STATION OBSERVATIONS. Air Pressure. Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Temperature. Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Pooree	Pooree .	30·127	29·840	29·974	29·986	—	93·6§	67·2§	87·2§	76·0§	81·6§	—	85	—	3·3	—	Nil
	Gopalpore ...	30·099	29·831	29·949	29·999	+·055	90·7	72·8	85·9	77·4	81·7	+2·5	73	—	1·2	—	0·02
	False Point ..	30·123	29·832	29·966	29·988	+·040	92·0	65·0	87·4	73·4	80·4	+0·1	88	+6	4·2	+1·3	Nil
Cuttack	Cuttack ..	30·070	29·706	29·912	29·905	+·061	107·4	65·8	99·7	73·6	86·7	+2·2	78	+16	3·9	+1·5	0·03
Balasore	Balasore ..	30·105	29·777	29·933	29·993	+·053	103·5	61·6	94·2	70·7	82·5	+2·0	80	—	[illegible]	—	0·16
South-West Midnapore and South 24-Pergunnahs.	Saugor Island .	30·132	29·810	29·961	29·988	+·051	92·2	68·4	88·2	76·9	82·6	+1·7	82	+3	4·5		Nil
Midnapore	Midnapore .	30·013	29·658	29·832	29·986	+·047	106·4¶	63·2¶	97·1¶	70·2¶	83·7¶	+1·9	66	—	1·7	—	Nil
24-Pergunnahs, Howrah and Hooghly.	Calcutta .	30·130	29·788	29·958	29·981	+·047	98·4	60·8	91·4	69·8	80·6	+0·4	84	+15	3·4	+1·1	0·77
Burdwan	Burdwan ..	30·066	29·681	29·864	29·967	+·035	103·2	60·2	96·1	69·3	82·7	+1·7	67	+12	2·8	+0·5	0·16
Bankoora	Bankoora ...	29·842	29·499	29·653	29·961	—	104·4	61·2	96·7	69·9	83·3	—	60	—	2·4	—	0·52
West Burdwan and Beerbhoom.	Raniguuge .	29·841	29·467	29·641	29·956	+·051	103·5	61·7	96·0	69·9	83·0	+1·8	56	—	1·8	—	0·48
Moorshedabad	Berhampore	30·103	29·728	29·900	29·969	+·044	102·9	57·2	94·1	66·9	80·5	+0·9	72	+15	3·3	+0·5	0·29
Nuddea	Krishnagore ..	30·120	29·753	29·927	29·994	+·072	102·8	56·8	94·2	67·2	80·8	+1·5	72	—	3·2	—	0·42
Jessore and Khoolna .	Jessore ..	30·128	29·786	29·950	29·985	+·051	103·3	58·5	94·1	69·1	81·6	+1·0	81	+10	3·1	+0·2	0·73
Chittagong	Chittagong .	30·056	29·798	29·923	30·015	+·040	92·2	60·6	89·2	68·7	78·9	+2·0	81	+7	4·0	+0·9	0·59
Chittagong Hill Tracts	Demagri ..						Observations not received.										
Backergunge	Barrisal ..	30·142	29·810	29·977	29·989	+·056	97·3	58·1	90·5	70·3	80·4	+1·9	86	—	2·7	—	0·76
Noakholly	Noakholly¶ .	30·093	29·779	29·953	29·997	+·045	91·3	57·0	87·5	67·7	77·6	+0·8	82	—	4·2	—	3·19
Furreedpore	Furreedpore .	30·116	29·776	29·947	29·987	+·043	101·0	56·0	86·2	66·6	76·4	−1·9	79	—	0·5	—	0·36
Dacca	Dacca	30·110	29·792	28·956	29·979	+·041	102·0	60·3	93·6	68·9	81·3	+2·0	79	+12	3·5	+0·5	0·93
Commillah	Commillah¶	30·128‖	29·827‖	29·978‖	30·015‖	+·066	96·3	57·0	92·2	68·0	80·1	+2·5	81	—	2·3	—	0·02
Mymensingh ...	Mymensingh	30·078	29·727	29·919	29·979	+·033	99·5	53·5	91·2	65·4	78·3	+3·7	80	—	3·6	—	0·10
Bogra	Bogra ..	30·066	29·670	29·880	29·945	+·032	102·3	54·9	93·7	64·9	79·3	+2·1	72	—	1·6	—	0·13
Pubna	Serajgunge	30·090	29·725	29·910	29·958	+·030	102·0	52·9	93·4	64·0	78·7	+2·0	80	—	3·4	—	Nil
Rajshahye	Rampore Beauleah.	30·082	29·723	29·890	29·962	+·055	100·8	54·7	92·4	66·1	79·3	+1·8	68	—	1·1	—	0·06
Maldah	Maldah¶ ..	30·053	29·728	29·877	29·960	—	100·1§	54·1§	93·8§	62·2§	78·0§	—	54	—	0·6	—	Nil
Dinagepore	Dinagepore ...	30·030	29·636	29·838	29·962	+·048	98·1	54·2	91·2	63·0	77·1	+1·1	67	—	0·8	—	Nil
Rungpore	Rungpore	30·004	29·646	29·818	29·977	+·064	95·4	53·4	89·6	62·5	76·1	+2·3	76	—	1·3	—	0·31
Julpigoree and Cooch Behar.	Julpigoree ..	29·853	29·461	29·676	29·974	+·056	91·0	50·9	86·2	58·6	72·4	−0·5	79	—	0·3	—	0·03
Darjeeling Hill Tracts	Darjeeling*	23·099	22·869	23·021	—	+·051	63·6	40·2	58·5	44·7	51·6	+1·5	79	+6	3·8	−1·3	0·39
Purneah and North Bhagulpore	Purneah .	30·024	29·627	29·824	29·955	+·037	98·3	55·5	90·8	62·8	76·8	+1·0	70	+15	0·8	−0·7	0·01
Mozufferpore	Mozufferpore .						Observations suspended.										
Durbhunga	Durbhunga .	29·990	29·595	29·784	29·956	+·038	95·2	60·9	87·2	67·2	77·2	+1·9	61	+7	0·8	−0·7	0·10
Chumparun	Motihar† ..	29·925	29·567	29·724	29·958	+·061	97·8	52·9	91·1	59·0	75·0	+0·7	55	—	1·2	—	0·08
Sarun	Chupra .	29·981	29·602	29·760	29·959	+·058	?	57·9	?	65·0	?	?	61	—	0·7	—	0·19
Shahabad	Dehree‡ ..	29·816	29·466	29·623	29·987	+·061	100·9	62·5	93·7	68·0	80·9	+3·2	50	—	1·0	—	1·15
	Buxar ..	29·939	29·559	29·722	29·971	+·051	99·4	57·4	93·3	66·6	80·0	+2·1	47	—	1·8	—	0·06
	Arrah ..	29·963	29·594	29·759	29·962	+·061	101·9	55·8	93·8	64·7	79·3	+1·7	55	—	1·1	—	0·12
Gya	Gya .	29·804	29·459	29·603	29·992	+·060	100·5	59·7¶	93·5	67·5¶	80·5¶	+0·9	51	+12	2·1	−0·1	0·80
Patna	Bankipore	29·8[illegible]	29·594	29·774	29·963	+·041	101·1	56·3	93·4	66·5	79·9	+2·7	53	+7	1·5	−1·4	0·25
South Bhagulpore and Monghyr.	Bhagulpore	29·986	29·586	29·779	29·945	+·040	99·3	58·0	91·5	65·7	78·6	+1·4	56	—	1·8	—	0·03
Sonthal Pergunnahs .	Naya Doomka	29·654	29·292	29·464	29·971	+·073	101·4	57·8	93·7	67·3	80·6	+1·3	40	—	0·3	—	0·19*
Hazaribagh	Hazaribagh ..	28·133	27·826	27·965	29·994	+·057	96·0	58·4	89·7	66·5	78·1	+2·2	38	+8	2·5	0	0·98
Lohardugga ... . / Manbhoom	Ranchee ..	27·993	27·661	27·828	29·973	+·044	96·5	57·4	90·4	65·6	78·0	+1·8	53	—	1·2	—	0·34
Singbhoom ...	Chyebassa ...	29·405	29·042	29·214	29·991	+·066	104·6	60·6	97·3	68·2	82·8	+1·1	45	—	1·0	—	0·24
Assam	Sibsagar ...	29·814	29·490	29·688	30·038	+·049	88·6	55·9	80·8	61·5	71·2	+2·1	92	+13	5·8	−0·4	5·92
	Dhubri .	30·030	29·637	29·851	29·972	+·040	95·7	59·4	88·4	65·5	77·0	+1·3	79*	+18	2·2	0	0·89
	Silchar .	30·043	29·742	29·909	30·018	+·047	96·1	54·4	90·2	64·1	77·2	+3·2	77	+5	5·0	+0·9	4·94

* Mean of 23 days.
† " of 25 "
‡ " of 26 "
§ " of 27 "
‖ " of 29 "
¶ " of 30 "

...Bengal for the month of March 1889.

DISTRICT OBSERVATIONS. RAINFALL. Of month. Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Since 15th May 1888. Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
0·02	0·80	−0·78	0·3	2·2	44·77	57·28	−12·51	72·2	87·3	Pooree, Gopalpore, False Point	Pooree	ORISSA.
	—	—	—	—	—	—	—	—	—			
	—	—	—	—	—	—	—	—	—			
0·03	1·12	−1·09	0·8	2·4	53·14	53·89	−0·75	78·7	83·9	Cuttack	Cuttack	
0·48	[illegible]·29	−0·81	1·8	2·7	54·67	55·64	−0·97	71·5	82·2	Balasore	Balasore	
0·06	1·26	−1·20	0·7	2·4	56·75	65·01	−8·26	72·7	90·4	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
0·01	1·62	−1·61	0·3	2·8	65·27	54·19	+11·08	74·4	77·0	Midnapore	Midnapore	
0·54	1·72	−0·98	2·2	3·2	65·10	54·43	+10·67	84·3	96·0	Calcutta	24-Pergunnahs, Howrah and Hooghly.	
0·30	1·42	−1·12	1·9	2·9	56·92	49·16	+7·76	77·6	81·0	Burdwan	Burdwan	
0·62	1·14	−0·52	1·3	2·6	54·02	54·09	−0·07	78·1	87·1	Bankoora	Bankoora	
0·76	0·64	+0·12	1·5	2·0	59·69	53·24	+6·45	89·1	87·9	Raniganj	West Burdwan and Beerbhoom.	
0·26	0·91	−0·65	1·2	2·3	49·97	52·25	−2·28	84·9	83·3	Berhampore	Moorshedabad	
0·82	1·80	−0·98	1·8	3·0	56·24	51·98	+4·26	81·6	83·3	Krishnagore	Nuddea	
0·72	2·23	−1·51	2·9	3·6	45·84	56·56	−10·72	79·3	90·7	Jessore	Jessore and Khoolna	
0·57	2·07	−1·50	2·0	3·6	127·04	116·58	+10·46	105·5	113·2	Chittagong	Chittagong	EAST BENGAL.
0·71	2·78	−2·07	2·5	4·1	74·40	85·25	−10·85	101·5	120·8	Demagri	Chittagong Hill Tracts	
0·73	2·17	−1·44	2·0	4·0	74·25	80·23	−5·98	86·8	111·9	Barrisal	Backergunge	
3·29	3·78	−0·49	4·0	5·4	110·55	111·94	−1·39	104·5	115·8	Noakholly	Noakholly	
0·27	2·70	−2·43	2·0	4·4	48·69	59·62	10·93	72·6	93·5	Furreedpore	Furreedpore	
0·00	3·21	−3·1	0·8	4·6	56·79	64·02	−7·23	87·5	98·6	Dacca	Dacca	
0·26	4·11	−3·85	1·0	5·5	63·29	74·44	−11·15	84·5	104·8	Commillah	Commillah	
0·07	2·22	−2·15	0·4	4·2	67·54	70·46	−2·92	94·4	95·0	Mymensingh	Mymensingh	
0·02	1·10	−1·08	0·5	2·6	47·47	59·11	−12·64	82·2	81·9	Bogra	Bogra	NORTH BENGAL.
0·02	1·50	−1·48	0·5	3·3	42·49	5[illegible]·90	−13·41	94·5	86·6	Serajgunge	Pubna	
0·03	0·87	−0·84	0·5	2·4	47·95	55·59	−7·64	84·5	81·0	Rampore Beauleah.	Rajshahye	
0·02	0·60	−0·58	0·5	1·8	43·85	55·41	−11·56	79·0	87·7	Maldah	Maldah	
0·02	0·70	−0·68	0·4	1·8	49·51	58·55	−9·04	78·9	81·6	Dinagepore	Dinagepore	
0·17	1·47	−1·30	0·8	2·4	59·40	75·73	−16·33	80·7	80·3	Rungpore	Rungpore	
0·39	1·91	−1·52	1·6	3·4	90·34	113·47	−23·13	97·8	102·0	Julpigoree	Julpigoree and Cooch Behar.	
2·62	2·12	+0·50	4·0	4·6	105·16	124·10	−18·94	128·7	121·0	Darjeeling	Darjeeling Hill Tracts	
Nil	0·49	−0·49	0·0	1·3	51·29	59·87	−8·58	73·8	72·8	Purneah	Purneah and North Bhagulpore.	NORTH BEHAR.
0·09	0·48	−0·39	1·3	1·3	44·01	44·41	−0·40	69·3	60·7	Mozufferpore	Mozufferpore	
0·06	0·30	−0·24	1·3	1·1	43·21	45·42	−2·21	69·7	60·2	Durbhunga	Durbhunga	
0·08	0·37	−0·29	1·0	1·1	44·81	47·54	−2·73	69·0	66·5	Motihari	Chumparun	
0·30	0·21	+0·09	1·3	1·1	41·69	43·60	−1·91	68·0	69·2	Chupra	Sarun	
0·67	0·41	+0·26	1·2	1·6	44·42	40·86	+3·56	66·8	64·0	Dehree, Buxar, Arrah	Shahabad	SOUTH BEHAR.
0·42	0·39	+0·03	1·5	1·5	52·87	42·43	+10·44	70·7	60·7	Gya	Gya	
0·20	0·30	−0·10	1·3	1·3	51·22	42·03	+9·19	71·3	64·9	Bankipore	Patna	
0·08	0·33	−0·25	0·6	1·2	52·38	44·02	+8·36	79·8	68·9	Bhagulpore	South Bhagulpore and Monghyr	
0·16	0·56	−0·40	0·7	1·5	55·38	51·82	+3·56	87·2	78·8	Naya Doomka	Sonthal Pergunnahs	
0·37	0·85	−0·48	1·4	2·1	58·59	51·86	+6·73	88·4	84·8	Hazaribagh	Hazaribagh	CHUTIA NAGPUR.
0·52	0·79	−0·27	2·3	2·6	52·29	50·56	+1·73	85·1	90·9	Ranchee	Lohardugga	
0·33	0·77	−0·44	2·0	2·7	48·14	48·63	−0·49	90·0	89·0	Ranchee	Manbhoom	
0·32	1·21	−0·89	1·0	2·9	41·30	53·63	−12·33	72·0	97·4	Chyebassa	Singhbhoom	
......	......	......	......	......	......	......	......	......	......	Sibsagar	Assam	ASSAM.
......	......	......	......	......	......	......	......	......	......	Dhubri		
......	......	......	......	......	......	......	......	......	......	Silchar		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA	Pooree	Pooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khurdah	...	...	...	0'07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		False Point	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gop	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kendrapara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jajpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dharmsalla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'25
		Salipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Balasore	Chandbali	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0 30	...	...	...	...	...
		Bhuddruck	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'40	...
		Sorah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'53	...
		Balasore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jellasore	...	...	...	...	...	...	...	0'08	...	...	...	...	...	...	...	...	...	...	...	...
		Baripodah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH-WEST BENGAL.	Midnapore	Contai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tumlook	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Midnapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatal	...	...	0'03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kukrahaty	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Heria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhagwanpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garbeta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Pergunnahs	Diamond Harbour.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Canning Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Jail	...	0 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrackpore	...	0'29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dum-Dum	...	0 97	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barasat	...	0 38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Busseerhat	...	0 18	...	...	...	...	...	...	...	...	...	...	...	...	0 11	...	...	...	...	...
	Howrah	Howrah	...	0'52	0'02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohesreka (*Oolooberiah*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hooghly	Serampore	...	0 27	0'02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hooghly	...	0 20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad	...	0'44	0 03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burdwan	Culna	...	0 31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burdwan	...	0 16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cutwa	...	...	0 43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raneegunge	...	0 48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mankur	...	...	0'19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankoora	Bankoora	...	0'47	0'10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bishenpore	...	1 60	0'08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahara	...	0 24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khatra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Indas	...	0 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kotalpore	...	0 62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Anda	...	0 40	0'10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gangajalghati	...	0 23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raipore	...	...	0'45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sonamukhi	...	1 05	0 05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Beerbhoom	Bh. Soory	...	0'52	0 01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hetampore	0'27	0 14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rampore Haut	...	1'59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bolpur	...	0 30	0'13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Murarai																				
	Nuddea	Ranaghat	...	0 12	0'02	...	...	...	...	...	...	...	...	...	...	0'02	...	...	...	...	...	...
		Kishnaghur	...	0 43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chooadanga	...	0'05	...	...	...	...	...	...	...	...	...	...	...	...	0 90	...	...	...	...	...
		Meherpore	...	2'21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kooshtea	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Khoolna	Satkhira	...	0'24	...	...	...	...	...	...	...	...	...	...	...	...	1'25	...	...	...	...	...
		Bagirhat	...	0 25	...	...	...	...	...	...	...	...	...	...	...	...	0'32	...	...	...	...	...
		Khoolna	...	0 37	...	...	...	...	...	...	...	...	...	...	...	...	0 07	...	...	...	...	...
	Jessore	Narail	...	0'52	0 04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jessore	...	0 70	...	0 03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhenidah	...	0'15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Magoorah	...	0'11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bongong	...	0'45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Moorshedabad	Kandi	...	0'84	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Berhampore	...	0 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalbagh	...	0 19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Azimgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jungipore	...	0 06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalgola	...	0 03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jiagunge	...	0'14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Akhriganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Patkabari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
EAST BENGAL	Chittagong	Cox's Bazar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chittagong	...	0'10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kutubdia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Satkanya	...	0'36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong Hill Tracts.	Rangamati	...	0'12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rumma	...	0 58	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Backergunge.	Patuakhally	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'35
		Ferozepore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burrisal	...	0 33	...	...	...	...	...	...	...	...	...	...	...	...	0'40	...	...	...	...	...
		Bhola	...	0'43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gournaddi	...	1 00	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banipal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0 02	...	...	...	...	...
	Noakholly	Noakholly	...	1'18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Fenny	...	0'75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

n Bengal in March 1889.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st March 1889.	Average rainfall from 1st January up to 31st March 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·55	Nil	0·17	1·88	Pooree ...	Pooree ..	ORISSA.
...	...	...	...	...	...	...	...	...	...	...	1	2·8	0·07	0·78	0·07	0·17	1·72	Khurdah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·72	Nil	0·22	1·79	Banpur.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·10	Nil	2·04	2·58	False Point.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·64	?	*Gop.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Pipli.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·79	Nil	2·43	1·82	Jagatsingpore.	Cuttack.	
...	0·02	...	...	...	...	...	...	...	...	...	1	3·7	0·02	1·28	0·02	1·33	2·26	Banki.		
												2·6						Cuttack.		
...	0·01	...	...	...	...	...	...	...	...	...	1	2·1	0·01	0·82	0·01	1·39	2·00	Kendrapara.		
0·10	...	...	...	...	...	...	...	...	...	...	1	2·2	0·10	1·07	0·10	1·25	2·77	Jajpore.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·25	?	0·25	0·75	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·90	?	*Salipore.*		
...	...	...	...	...	...	...	...	...	...	...	1	2·0	0·30	1·04	0·30	2·10	2·56	Chandbali .	Balasore.	
0·21	...	...	...	...	...	...	...	...	...	...	2	2·3	1·61	1·39	1·40	2·49	3·06	Bhuddruck.		
0·14	...	...	...	...	...	...	...	...	...	...	2	2·7	0·67	1·57	0·53	2·27	2·69	Sorah.		
												3·4						Balasore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·5	0·08	0·94	0·08	1·14	2·64	Jellasore.		
0·09	...	...	...	...	...	...	...	...	...	...	1	3·2	0·09	1·21	0·09	1·97	2·29	Baripodah.		
0·16	...	...	...	...	...	...	...	...	...	...	1	2·1	0·16	1·13	0·16	1·94	2·82	Contai	Midnapore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·29	Nil	1·51	2·80	Saugor Island		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·67	Nil	2·40	3·31	Tumlook		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·9	Nil	1·35	Nil	7·27	3·11	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·8	0·03	1·60	0·03	1·76	2·92	Ghatal		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·23	?	*Kukrahaty.*		
0·15	...	...	...	...	...	...	...	...	...	...	1	?	0·15	?	0·15	1·85	?	*Herta.*		
0·15	...	...	...	...	...	...	...	...	...	...	1	?	0·15	?	0·15	6·27	?	*Bhagwanpore*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	1·46	Nil	1·48	3·05	*Garbeta.*		
0·03	...	...	...	...	...	...	...	...	...	...	1	2·9	0·03	1·37	0·03	1·82	3·64	Diamond Harbour.	24-Pergunnahs	
...	...	0·18	0·04	...	...	...	...	...	...	...	2	?	0·22	?	0·18	2·03	?	*Canning Town.*		
...	...	...	0·30	0·27	0·26	...	...	...	...	...	4	3·3	1·16	1·66	0·36	4·03	3·88	Alipore Jail		
0·02	...	...	...	...	...	...	...	...	...	...	2	3·0	0·31	1·65	0·29	1·93	3·37	Barrackpore.		
...	...	...	...	0·09	...	...	...	...	...	...	2	2·9	1·06	1·54	0·97	3·68	3·25	Dum-Dum.		
...	...	...	...	...	...	...	...	...	...	...	1	3·1	0·36	1·50	0·36	3·31	3·44	Baraset.		
...	...	...	...	...	...	...	...	...	...	...	2	3·0	0·29	2·08	0·18	2·02	3·55	Busserhat.		
0·03	...	...	0·41	...	...	...	...	...	...	...	4	3·6	0·98	1·84	0·52	3·76	3·74	Howrah ..	Howrah ..	SOUTH-WEST BENGAL.
0·24	...	...	...	...	...	...	...	...	...	...	1	3·2	0·24	1·11	0·24	4·19	3·20	Mohesreka (*Oolooberiah*).		
0·03	...	...	...	...	...	...	...	...	...	...	3	3·4	0·32	1·33	0·27	2·24	3·00	Serampore .	Hooghly.	
...	...	...	...	...	...	...	...	...	...	...	1	2·9	0·20	1·71	0·20	1·38	3·51	Hooghly.		
...	...	...	...	...	...	...	...	...	...	...	2	3·1	0·47	1·11	0·44	2·33	2·78	Johanabad.		
...	...	...	...	...	...	...	...	...	...	...	1	2·5	0·31	1·34	0·31	1·41	2·80	Culna ...	Burdwan.	
...	...	...	...	...	...	...	...	...	...	...	1	3·4	0·16	1·26	0·16	0·88	2·36	Burdwan.		
...	...	...	...	...	...	...	...	...	...	...	1	2·7	0·43	1·25	0·43	1·63	2·84	Cutwa.		
...	...	...	...	...	...	...	...	...	...	...	1	2·4	0·48	0·64	0·48	2·32	2·15	Raneegunge		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·19	?	0·19	2·61	?	*Mankur.*		
...	...	...	...	...	...	...	...	...	...	...	2	2·7	0·57	1·39	0·47	1·51	2·80	Bankoora	Bankoora.	
...	...	...	...	...	...	...	...	...	...	...	2	2·8	1·68	1·37	1·60	4·00	2·56	Bishenpore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·1	0·24	0·67	0·24	1·97	1·69	Malmia		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·14	Nil	1·67	2·29	Khatra.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·27	?	0·27	0·95	?	Indas		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·62	?	0·62	3·34	?	Kotalpore.		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·50	?	0·40	1·70	?	Anda.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·23	?	0·23	2·09	?	Gangajalghati.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·45	1·17	0·45	1·18	2·34	*Raipore.*		
0·04	...	...	...	...	...	...	...	...	...	...	3	?	1·12	?	1·05	2·16	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	...	...	...	2	2·4	0·53	0·67	0·52	2·76	2·09	Bh. Soory .	Beerbhoom	
...	...	...	...	...	...	...	...	...	...	...	2	1·4	0·41	0·45	0·27	2·64	1·99	Hetampore.		
...	...	...	...	...	...	...	...	...	...	...	1	1·6	1·59	0·76	1·59	5·03	2·24	Rampore Haut		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·49	?	0·36	2·67	?	*Bolpur*		
																		Murarai.		
0·03	...	...	...	...	...	...	...	...	...	...	4	2·3	0·49	1·38	0·42	2·65	2·85	Ranaghat ...	Nuddea.	
0·01	...	...	...	...	...	...	...	...	...	...	2	3·1	0·44	1·22	0·13	2·02	2·67	Kishnaghur.		
...	...	...	...	...	...	...	...	...	...	...	2	3·1	0·95	1·83	0·90	2·69	3·27	Chooadanga.		
...	...	...	...	...	...	...	...	...	...	...	1	3·1	2·21	2·17	2·21	5·23	3·59	Meherpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	3·6	Nil	1·78	Nil	1·33	3·26	Kooshtea.		
0·06	...	...	...	...	...	...	...	...	...	...	3	3·4	1·55	2·50	1·25	3·34	3·86	Satkhira ..	Khoolna	
...	...	...	...	...	...	...	...	...	...	...	2	2·8	0·57	1·75	0·32	1·64	3·70	Bagirhat.		
0·06	...	...	...	0·14	...	...	...	...	...	...	4	3·7	0·64	2·12	0·37	1·35	3·89	Khoolna.		
0·03	...	0·24	...	...	...	...	...	...	...	...	4	3·7	0·83	1·88	0·52	2·56	3·72	Narail .	Jessore.	
...	0·11	...	0·07	...	...	...	...	...	...	...	4	4·7	0·91	2·10	0·70	1·70	3·44	Jessore.		
...	...	...	...	...	...	...	...	...	...	...	1	3·7	0·15	2·07	0·15	1·45	3·50	Jhenidah.		
0·08	...	0·38	...	...	...	...	...	...	...	...	3	4·4	0·57	2·42	0·38	1·60	3·76	Magoorah.		
0·12	...	...	...	...	...	...	...	...	...	...	2	2·7	0·57	1·72	0·45	1·92	3·15	Bongong.		
...	...	...	...	...	...	...	...	...	...	...	1	2·1	0·84	0·95	0·84	2·49	2·25	Kandi ...	Moorshedabad.	
0·02	...	...	...	...	...	...	...	...	...	...	2	2·4	0·29	1·13	0·27	2·57	2·52	Berhampore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·2	0·19	0·85	0·19	2·88	2·22	Lalbagh.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·4	Nil	0·88	Nil	3·26	2·32	Azimgunge.		
...	...	...	...	...	...	...	...	...	...	...	1	2·3	0·06	0·62	0·06	4·03	1·92	Jungipore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·2	0·06	0·81	0·06	3·54	2·19	Lalgola.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·14	?	0·14	2·93	?	Jangunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·77	?	*Akhrigunj.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil			*Patkabari.*		
0·56	...	...	...	...	...	...	...	...	...	...	1	3·1	0·56	1·75	0·56	1·06	2·97	Cox's Bazar ...	Chittagong ...	EAST BENGAL.
0·42	...	0·06	...	...	...	...	...	...	...	...	3	4·0	0·58	1·93	0·42	1·48	3·61	Chittagong.		
0·30	...	...	...	...	...	...	...	...	...	...	1	?	0·30	?	0·30	0·83	?	*Kutubdia.*		
0·29	...	...	...	...	...	...	...	...	...	...	2	?	0·65	?	0·36	0·91	?	*Sathanya.*		
0·10	...	0·50	...	...	...	...	...	...	...	...	3	4·8	0·72	2·84	0·50	2·26	4·54	Rangamati ...	Chittagong Hill Tracts.	
0·12	...	...	...	...	...	...	...	...	...	...	2	3·3	0·70	2·58	0·58	1·74	3·67	Rama		
...	...	...	...	...	...	...	...	...	...	...	1	3·7	0·35	1·72	0·35	3·02	3·07	Patuakhally ...	Backergunge.	
0·27	...	...	...	...	...	...	...	...	...	...	1	3·0	0·27	1·54	0·27	1·28	3·49	Perozepore.		
0·05	...	0·23	...	...	...	...	...	...	...	...	3	4·5	0·78	2·31	0·40	2·83	3·98	Burrisal.		
...	...	...	...	...	...	...	...	...	0·87	...	3	4·8	1·53	2·44	0·87	2·59	3·81	Bhola		
...	...	...	...	...	...	...	...	...	...	...	1	?	1·06	?	1·00	2·55	?	*Gournaddi.*		
0·24	...	...	...	...	...	...	...	...	...	...	2	?	0·26	?	0·24	1·42	?	*Bauphal.*		
1·67	...	0·15	...	...	...	...	...	...	0·37	...	4	4·5	3·12	2·85	1·47	4·67	4·26	Noakhally ...	Noakhally.	
0·80	1·60	0·30	...	...	...	...	...	...	...	...	4	6·3	3·45	3·95	1·60	4·90	5·00	Fenny.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL —*concld.*	Noakholly—*concld.*	*Harishpore*	...	0·40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramganj	...	0·37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore	Madaripore	...	0·16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Furreedpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo	...	0·08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dacca	Munshigunge	...	0·04	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...	...
		Dacca	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Narainganj	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manickgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Joydebpore	...	0·01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tipperah	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandpore	...	0·30	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	...	...	...
		Brahmunberia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandrapore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nasirnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudkandi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·39	...	0·03	...	...	...
		Kasba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	...
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Netrokona	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Subornakhali	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durgapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dewanganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BENGAL	Pubna	Pubna	...	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Serajgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogra	Sherpore	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	...
		Nowkhilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bogra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Panchbibi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahye	Beauleah	...	0·06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nattore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naogaon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah	Maldah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chanchal	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sibganj	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	...	...	...
	Dinagepore	Mohadebpore	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chintamon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raigunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0[illegible]	...	...	...	...
		Dinagepore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baloorghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	...	...	...
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rungpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...
		Kurigram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	...	...	...
		Ulipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Doar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·50	1·52	0·12
		Falacotta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·33	...	0·12
		Dalgang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhogotpore (*Nagrakatta*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·53	0·73	0·74	0·32
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·16	0·23	0·17	...	...
		Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...
		Meckligunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...
		Matabhanga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	0·71	0·05	...
	Darjeeling Hill	Buxa	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	2·00	...	0·34	2·27	0·55
		Siliguri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·84	0·24	...	...
		Darjeeling	...	...	...	...	...	...	...	...	...	...	...	...	·25	0·02	0·10	...	...	...	...	0·02
		Kalimpong	...	...	...	...	...	...	...	...	...	...	...	1·42	0·09	...	...	...	...	0·23	0·03	...
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrareah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Purneah	...	0·01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gondwara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bilarampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matiari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliaganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soopool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Durbhunga	Tajpore	0·01	0·06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durbhunga	0·07	0·0[illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bahera	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Roshera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore	Sitamarhi	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore	0·08	0·07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hajipore	...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Paru	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua	...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sinhar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumparun	Motihari	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah	0·13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagaha	0·01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sarun	*Burhurwa*	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gopalgunge	0·30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sewan	0·01	0·24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra	0·34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in March 1889—*continued.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st March 1889.	Average rainfall from 1st January up to 31st March 1889.	Station.	District.	Meteorological division.
0·15	...	...	...	...	...	...	...	...	0·01	...	3	?	0·56	?	0·40	1·40	?	*Harishpore* ...	Noakholly—*concld.*	EAST BENGAL—concld.
0·50	...	...	...	...	...	...	...	...	...	...	2	?	0 67	?	0·37	2 83	?	*Ramganj.*		
0·10	...	...	...	...	...	...	...	...	...	...	2	4·8	0·26	2·69	0·16	1·32	4·26	Madaripore ...	Furreedpore.	
...	...	0 30	0 06	...	...	...	...	...	...	...	2	4 6	0·36	2 67	0·30	1·68	4·29	Furreedpore.		
...	...	0·11	...	...	...	...	...	...	...	...	2	3·9	0 19	2·21	0·11	1·38	3·81	Goalundo.		
0·05	...	...	...	...	...	...	...	...	...	...	2	5·2	0·09	3 84	0·05	0·73	5·65	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	...	...	...	...	1	4·9	0·11	2·56	0·11	1·44	3 87	Dacca.		
...	...	...	...	...	...	...	...	...	...	...	1	4 2	0·03	3·11	0·03	1·36	4·58	Naraingunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	4·1	Nil	1·88	Nil	1 89	3·49	Manickgunge		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·01	?	0·01	0·62	?	*Joydebpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	5·6	Nil	4·57	Nil	0·94	6·47	Agartola ...	Hill Tipperah.	
...	...	...	...	...	...	...	...	...	...	...	Nil	6·1	Nil	2·98	Nil	1·26	4·47	Comilla ...	Tipperah.	
0·60	...	...	...	...	...	...	...	...	...	...	2	4·4	0·90	3·30	0·60	2·62	4·72	Chandpore.		
...	...	...	0·06	...	...	...	...	...	...	...	2	5·8	0·12	4·44	0·06	1·48	6·47	Brahmunberia.		
...	...	...	0·05	...	...	...	...	...	...	...	1	?	0·05	?	0·05	0·70	?	*Ramchandrapore.*		
...	0·30	...	...	...	...	...	...	...	...	...	1	?	0·30	?	0·30	0·75	?	*Nasirnagar.*		
0·05	...	...	...	...	...	...	...	...	...	...	1	?	0 05	?	0·05	0·05	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·44	?	0·39	0·81	?	*Kasba.*		
1·10	...	...	...	...	...	...	...	...	...	...	1	?	1·10	?	1·10	3·39	?	*Laksham.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	5·9	Nil	2·85	Nil	0·90	4·24	Kishoregunge.	Mymensingh.	
...	...	...	...	...	...	...	...	...	...	...	Nil	2·8	Nil	1 37	Nil	1·28	2 93	Atia (*Tangail*)		
...	...	...	...	...	...	...	...	...	...	...	1	4·7	0 05	2·15	0 05	0·83	3·67	Mymensingh.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2 8	Nil	1·38	Nil	2·33	2 92	Jamalpore.		
...	...	...	...	...	0·28	...	...	...	...	...	1	4·7	0·28	2·57	0·28	0 58	3 17	Netrokona.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·03	?	0·03	1 41	?	*Subornakhally*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·10	?	*Durgapore*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·11	?	Sherepore town		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Dewanganj.*		
...	...	...	...	...	...	...	...	...	...	...	1	3·8	0·04	1·71	0 04	1·21	3 21	Pubna ...	Pubna ...	NORTH BENGAL.
...	...	...	...	...	...	...	...	...	...	...	Nil	2·8	Nil	1·26	Nil	2·32	2·76	Serajgunge.		
...	...	...	...	...	...	...	...	...	...	...		3·3	0·03	1·87	0·03	2·48	2 70	Sherpore ...	Bogra.	
...	...	...	...	...	...	...	...	...	...	...		3 3	0 05	1 12	0·05	2 64	2 43	Nowkhilla.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	0·85	Nil	2·46	2 27	Bogra.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·82	Nil	3·78	1·89	Panchbibi.		
...	...	...	...	...	...	...	...	...	...	...	1	2·8	0 06	1 19	0·06	2·85	2 41	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·88	Nil	3·05	2 46	Nattore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4 40	?	*Naogaon.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1 28	?	*Lalpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3 20	?	*Manda.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	2 1	Nil	0·83	Nil	4 19	2·28	Maldah ...	Maldah.	
...	...	...	...	...	...	...	...	...	...	...	1	1·5	0 03	0·42	0·03	2·86	1·,2	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·54	?	*Gajol.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·07	?	0 05	3·12	?	*Sibganj.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·9	0·04	0·70	0·04	3 80	1·78	Mohadebpore .	Dinagepore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·43	Nil	4·82	1 53	Churamon.		
...	...	...	...	...	...	...	...	...	...	...	1	1·6	0 02	0 57	0 02	4 39	1 90	Raigunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0 76	Nil	2 90	1 60	Dinagepore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2 0	Nil	0 58	Nil	3 46	1 49	Baloorghat		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·20	?	0·20	3 24	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·38	Nil	3 30	2 36	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	...	...	...	1	2·6	0·40	1·12	0 40	4·08	2 03	Rungpore.		
...	...	...	...	...	...	...	...	...	...	...	1	2·8	0 25	1 81	0·25	3 22	2 78	Kurigram.		
...	...	...	...	...	...	...	...	...	...	...	1	1·8	0·02	1·10	0 02	3 53	2 29	Bagdogra. (*Nilphamari*)		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·65	?	0 65	2·93	?	*Ulipore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·9	Nil	1·80	Nil	3 34	2 76	Julpigoree .	Julpigoree	
...	...	...	...	...	...	...	...	...	...	...	3	?	3·14	?	1·52	5 92	?	*Alipore Doar.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·45	?	0·33	2 95	?	*Falacotta.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3 94	?	*Debiganj.*		
...	...	...	...	...	...	...	...	...	...	...	4	?	2·31	?	0·74	5·51	?	Bhogotpore (*Nagrakatta.*)		
...	...	...	...	...	...	...	...	...	...	...	3	3·5	0·56	1 71	0·23	3 82	2 78	Dinhatta	Cooch Behar.	
...	...	...	...	...	...	...	...	...	...	...	1	3 6	0 15	1·83	0·15	5 32	2 79	Cooch Behar.		
...	...	...	...	...	...	...	...	...	...	...	1	3 3	0·12	1 29	0 12	4 17	2 13	Mekligunge.		
...	...	...	...	...	...	...	...	...	...	...	3	3·6	1 11	2 20	0·71	4 78	3·07	Matabhanga.		
...	...	...	...	...	...	0·10	...	...	...	...	6	5 0	6·25	3·31	2·90	11·19	5 48	Buxa	Darjeeling.	
...	...	...	...	...	...	...	...	...	...	...	2	3 4	2·08	1·71	1·84	5·14	2 89	Siliguri.		
...	...	...	...	...	...	...	...	...	...	...	4	5·4	0 39	2·22	0·25	5 89	4 16	Darjeeling.		
...	...	...	...	...	...	...	...	...	...	...	4	4·7	1·77	1·75	1·42	6·08	3 77	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1 8	Nil	0·02	Nil	2·18	1·75	Kissengunge ..	Purneah ..	NORTH BEHAR.
...	...	...	...	...	...	...	...	...	...	...	Nil	1 4	Nil	0 59	Nil	2 55	1·72	Ariareah.		
...	...	...	...	...	...	...	...	...	...	...	1	1 2	0 01	0 38	0·01	2 96	1 49	Purneah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2 98	?	*Gondwara.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3 65	?	*Balarampore*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2 81	?	*Matiari*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·98	?	*Kaliaganj*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0 37	Nil	5·45	1·64	Maddapore ..	North Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0 37	Nil	4 38	1 42	Soopool.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3 36	?	*Protabganj*		
...	...	...	...	...	...	...	...	...	...	...	2	0·9	0·07	0 22	0·06	6·00	1·50	Tajpore ..	Durbhunga.	
...	...	...	...	...	...	...	...	...	...	...	2	1·3	0 10	0 28	0 07	4 00	1 39	Durbhunga.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1 1	Nil	0 35	Nil	3 60	1 64	Madhubani.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·05	?	0·05	4 51	?	*Bahera.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·23	?	*Roshera.*		
...	...	...	...	...	...	...	...	...	...	...	1	1 1	0 03	0 61	0·03	4 80	1 65	Sitamarhi .	Mozufferpore.	
...	...	...	...	...	...	...	...	...	...	...	2	1·3	0 15	0 45	0·08	5·15	1 98	Mozufferpore.		
...	...	...	...	...	...	...	...	...	...	...	1	1·5	0·10	0 36	0 10	3 92	1 62	Hajipore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3 37	?	*Paru.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·10	?	0 10	4·20	?	*Mahua.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	15 12	?	*Sinhar.*		
...	...	...	...	...	...	...	...	...	...	...	N	?	Nil	?	Nil	2 40	?	*Pupri.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·3	0·04	0·50	0·04	3·89	1·34	Motihari ...	Chumparun.	
...	...	...	...	...	...	...	...	...	...	...	1	0·9	0·13	0·35	0·13	3 96	1·60	Bettiah.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·09	?	0 09	4 22	?	*Bagaha.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·40	?	0 40	4 51	?	*Burhurwa.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·1	0·30	0 14	0·30	5 34	1 51	Gopalgunge.	Sarun.	
...	...	...	...	...	...	...	...	...	...	...	2	1·4	0·25	0 23	0·24	3·86	1·58	Sewan.		
...	...	...	...	...	...	...	...	...	...	...	1	0 9	0 34	0 38	0·34	3 56	1·59	Chuprah.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad ...	Buxar ...	...	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	1·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhuboosh ...	0·15	0 60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	1·22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	0·18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohaniah ...	0·51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad...	0·08	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	0·80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	0·07	0 28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	0·25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	0·23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.	...	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	Patna ...	0·11	0·14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinapore ...	0·20	0·13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrh ...	...	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bickram ...	...	0·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	0 28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ...	Begooserai ...	...	0·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Monghyr ...	...	0 10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamui ...	...	0·17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gogri ...	...	0·09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour ...	...	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	0·19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Deoghur ...	...	0·17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	0·55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*). ...	...	0·38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ..	...	0·65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Semtagurrah .	...	0 35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhi ...	...	0·24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	0·26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karagdeha ...	...	0·12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Palamow ...	0·20	0·28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Silli ...	...	0 10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hoseinabad...	0·32	0·49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ..	0 50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10
	Singbhoom ...	Chyebassa ...	...	...	0·32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baharagura...	...	...	1·27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	0·03	0·16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gobindpore ...	...	0·42	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raghunathpore.	...	0·40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrabhoom...	0·01	...	0·42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...																				
		Chas ...																				

in Bengal for the month of March 1889—*concluded.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st March 1889.	Average rainfall from 1st January up to 31st March 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	1	1·6	0·04	0·26	0·04	2·59	1·43	Buxar ..	Shahabad ...	SOUTH BEHAR.
...	...	...	...	...	...	...	...	...	...	...	1	1·8	1·15	0·70	1·15	2·65	1·66	Dehree.		
...	...	...	...	...	...	...	...	...	...	...	2	1·3	0·75	0·57	0·60	2·05	1·75	Bhuboosh.		
...	...	...	...	...	...	...	...	...	...	...	1	1·5	1·22	0·35	1·22	2· 8	1·34	Sasseram.		
...	...	...	...	...	...	...	...	...	...	...	1	1·6	0·18	0·49	0·18	2·90	1·90	Arrah.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·51	?	0·51	2·31	?	*Mohaniah.*		
...	...	...	...	...	...	...	...	...	...	...	2	1·5	0·27	0·38	0·19	1·82	1·97	Aurungabad ...	Gya.	
...	...	...	...	...	...	...	...	...	...	...	1	1·8	0·80	0·43	0·80	4·65	1·74	Gya.		
...	...	...	...	...	...	...	...	...	...	...	2	1·4	0·35	0·46	0·28	3·33	1·71	Nowadah.		
...	...	...	...	...	...	...	...	...	...	...	1	1·1	0·25	0·35	0·25	3·83	1·60	Jehanabad.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·23	?	0·23	3·09	?	*Arwal.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·85	?	*Daudnagar.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·51	?	*Sheerghati.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·65	?	*Rajauli.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·20	?	0·20	1·65	?	*Pakri Barawan.*		
...	...	...	...	...	...	...	...	...	...	...	2	1·6	0·25	0·34	0·14	3·89	1·57	Patna ...	Patna.	
...	...	...	...	...	...	...	...	...	...	...	2	0·9	0·33	0·19	0·20	3·54	1·20	Dinapore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·33	Nil	4·57	1·70	Behar.		
...	...	...	...	...	...	...	...	...	...	...	1	1·2	0·20	0·33	0·20	6·04	1·49	Barrh.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·15	?	0·15	2·05	?	*Bickram.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·28	?	0·28	4·35	?	*Hilsa.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·0	0·15	0·24	0·15	5·66	1·57	Begooserai ...	Monghyr.	
...	...	...	...	...	...	...	...	...	...	...	1	1·5	0·10	0·42	0·10	3·32	1·57	Monghyr.		
...	...	...	...	...	...	...	...	...	...	...	1	1·1	0·17	0·42	0·17	3·69	1·85	Jamui.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·09	?	0·09	6·17	?	*Gogri.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·55	?	*Sheikpura.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·30	Nil	3·73	1·51	Bhagulpore ..	South Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·32	Nil	4·13	1·57	Banka.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·46	?	*Kolgong.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·31	Nil	3·16	1·10	Rajmehal ...	Sonthal Pergunnahs.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·38	Nil	4·53	1·49	Godah.		
...	...	...	...	...	...	...	...	...	...	...	1	1·7	0·04	0·57	0·04	3·64	1·77	Pakour.		
...	...	...	...	...	...	...	...	...	...	...	1	2·3	0·19	0·69	0·19	3·35	2·02	Nya Doomka.		
...	...	...	...	...	...	...	...	...	...	...	1	1·8	0·17	0·66	0·17	2·11	1·76	Deoghur.		
...	...	...	...	...	...	...	...	...	...	...	1	1·5	0·55	0·75	0·55	2·08	1·73	Jamtara.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·87	?	*Mohagama.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·52	?	*Nanihat.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·9	0·38	0·61	0·38	3·09	1·78	Pachamba (*Giridi*). ...	Hazaribagh ...	CHUTIA NAGPUR.
0·26	0·07	...	...	...	...	...	...	...	...	...	3	3·2	0·98	0·70	0·65	2·34	2·00	Hazaribagh.		
0·06	...	...	...	...	...	...	...	...	...	...	2	2·1	0·41	1·18	0·35	1·95	2·41	Simtagurah.		
0·06	...	...	...	...	...	...	...	...	...	...	1	1·9	0·06	0·74	0·06	1·56	2·15	Mahudi Hills.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·64	Nil	2·75	1·60	Jhoomrah Hills.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·24	?	0·24	1·84	?	*Barhi.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·26	?	0·26	4·37	?	*Chatra.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·12	?	0·12	2·77	?	*Karagdeha.*		
												?		?			?	*Ramghar.*		
0·70	...	...	...	...	...	...	...	...	...	...	1	2·8	0·70	0·63	0·70	2·87	2·19	Lohardugga ...	Lohardugga.	
0·15	0·05	...	...	...	...	...	...	...	...	...	3	3·2	0·30	1·27	0·15	1·12	3·05	Ranchi.		
0·07	...	...	...	...	...	...	...	...	...	...	3	1·9	0·55	0·64	0·28	2·15	1·92	Palamow.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·10	?	0·10	0·80	?	*Silli.*		
												?		?			?	*Balumat.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·81	?	0·49	2·08	?	*Hoseinabad.*		
0·05	...	...	...	...	...	...	...	...	...	...	3	?	0·65	?	0·50	1·40	?	*Garwah.*		
...	...	...	...	...	...	...	...	...	...	...	1	2·9	0·32	1·17	0·32	0·86	2·70	Chyebassa ...	Singbhoom.	
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·72	?	*Chakradharpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·80	?	*Ghatsila.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	1·27	?	1·27	3·77	?	*Baharagura.*		
...	...	...	...	...	...	...	...	...	...	...	2	3·5	0·19	0·87	0·16	1·74	2·23	Purulia ...	Manbhoom.	
...	...	...	...	...	...	...	...	...	...	...	2	1·8	0·47	0·44	0·42	1·82	1·83	Gobindpore.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·40	?	0·40	3·03	?	*Raghunathpore.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	0·43	?	0·42	1·08	?	*Barrabhoom.*		
																		Jhalda.		
																		Chas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF MARCH 1889.

THE transition from the cold-weather conditions to those of the hot season in Bengal which usually commences at the close of February, becomes complete in March. The normal features of the meteorology of March are therefore rapidly increasing temperature, gradually decreasing pressure, a general increase in the air motion, winds becoming westerly at the inland stations and south-westerly at the southern stations, while the northerly component in the wind directions almost disappears except in Behar; the air is also generally very dry, skies are clear, and there is an almost complete absence of rain, unless the normal weather conditions are disturbed by the occurrence of the local storms known as nor'-westers. These storms are believed to be brought about by the interaction of the more or less opposing wind systems which obtain to a certain extent over Bengal in this month, for at the western stations, winds are strongly westerly, at the southern stations strong moist southerly winds usually blow, while easterly winds continue to blow down the Assam Valley, and sometimes penetrate as far as Purneah and Durbhunga. From the nature of the formation of these nor'-westers and their local character, the rainfall brought by them, which is sometimes decidedly heavy, is very irregularly distributed. Occasionally also the normal conditions in March are disturbed by the formation of depressions over Northern India, which extend and travel in a south-easterly direction, and give unsettled weather and perhaps rain to Behar, Chutia Nagpur, and North Bengal, but these barometric depressions are usually less numerous and less influential in character than they are in the previous cold-weather months.

By these irregular actions a moderate amount of rain is brought to Bengal during March The normal rainfall is heaviest in East Bengal, where it averages about 2·8 inches. In South-West Bengal, North Bengal, and Orissa the fall ranges from about one to one and a half inches; in Chutia Nagpur it is rather less than an inch; while in Behar it is rather less than half an inch.

Meteorology of the month.—The chief features in the meteorology of March 1889 have been—

1. The mean pressure over the province of Bengal has been decidedly in excess of the normal, the excess averaging about 0·046 inch. This excess, though fairly equally distributed, has been generally largest at the western stations, where at Cuttack, Gya, and Hazaribagh it equals about 0·06 inch; while it has been comparatively small in South-East and South Bengal, where it equals about 0·04 inch. In Assam the mean excess pressure has been 0·045 inch, and here the excess is almost equal at all stations.

2. The average temperature of the whole province of Bengal has been 1·6° in excess of the normal, the largest excess temperatures being confined to the districts of Chutia Nagpur and South Behar In Assam an average excess temperature of 2·2° was registered.

3. Humidity has been decidedly in excess of the normal in all districts, the excess being large in the south-western districts, where it has varied from about 12 to 15 per cent.

4. Cloud proportion has been decidedly larger than usual in Orissa and South-West and East Bengal, but it has been below it in Behar and Chutia Nagpur.

5. A slight disturbance or area of comparative barometric depression was formed at the commencement of the month over Chutia Nagpur and the adjacent districts of the Central Provinces and North-West Provinces. This was the continuation of a shallow depression which had stretched from Upper Sind into the Central Provinces. The depression moved in an easterly direction and gave a series of thunderstorms with general rain in South-West and East Bengal, South Behar, and Chutia Nagpur on the first two or three days of the month, while a few showers fell in North Behar and North Bengal. Slightly disturbed conditions with rain again obtained in the hills and at the stations near them from the 13th to the 20th, and on the 21st and 22nd disturbed conditions existed in Orissa, South-West and East Bengal; but with the exception of these brief periods of disturbance, weather has been fine almost throughout the month. There has therefore been a comparative absence of storms of the two classes mentioned under the normal meteorology of the month.

6 Rainfall for the month has been consequently in decided defect in all districts. The fall in North Bengal has equalled about a tenth of the usual amount; in Orissa, East Bengal, and North Behar it has been about a fifth to a quarter of the usual quantity; in South-West Bengal about one-third; in Chutia Nagpur about one-half; while the largest comparative fall has occurred in South Behar, where it equals about three-fourths of the normal amount. For the whole province of Bengal the average fall is rather less than a third of the normal. In Assam heavy falls have occurred at Sibsagar and Silchar, but very little rain has fallen at Dhubri.

There are, therefore, no particular features in the meteorology of the month which require discussion. Slightly disturbed weather with a number of local storms prevailed in all except the northern districts of the province during the first two or three days. This was followed by period of about a fortnight, during which the hot-weather conditions steadily established themselves, though a few local storms of little or no importance were reported during this interval. Weather then became more disturbed by the passage of a shallow low-pressure area from Central India over North Bengal, and probably also over the hills; and from about the 16th to the 20th local storms were numerous over the north of the province. On the

latter date a brisk fall of pressure caused a feeble depression to appear over North Behar and Bengal, and this was followed by the occurrence of a series of thunderstorms with rain. On the 20th the storms commenced in Chutia Nagpur; during the 24 hours following, storms were reported from the stations along the western portion of South-West Bengal, South Bengal, and Chittagong. Some of these storms were decidedly severe. Thus a rather severe storm occurred about 7-30 p. m. on the 20th at Hazaribagh; at 10-30 p. m. of the same day a severe storm was reported at Ranigunge. A rather large storm passed to the west of Calcutta, moving in a south-earterly direction, at 8 a. m. of the 21st, while beween ten and eleven on the same day Saugor Island was visited by a rather severe storm accompanied by a strong westerly gale, during which wind velocity averaged 44 miles an hour, but which rapidly passed away. It is of course impossible to state with certainty that this was a single storm, but judging by the times at which these stations were visited by storms, it is quite possible that this was a single storm travelling roughly in a south-easterly direction, in which case the velocity of the movement of the body of the storm itself would have been about sixteen miles an hour. These slightly disturbed conditions continued up to about the 23rd, when ordinary hot-weather conditions again set in and continued up to the 27th, when, owing to large barometric changes, a rather deep barometric depression was formed in North Bengal. This was probably only a part of a larger disturbance or stormy weather in Sikkim and the Bhutan Himalayas, and on this day a gale of wind was reported from Darjeeling, but little or no rain accompanied the disturbed conditions at any of the reporting stations. The disturbed conditions, however, which were brought about by this stormy weather, gave rather heavily-clouded skies to many of the stations in the plains for several days, and even up to the close of the month the effects of the disturbance had not entirely disappeared.

Pressure.—The principal abnormal changes in the pressure distribution during the month have already been referred to under the description of the general meteorology. For the whole province the mean pressure has been almost steadily in excess of the normal, the average excess being 0·046 inch. The excess was largest in the first week of March, when it averaged about 0·1 inch to 0·14 inch.

Temperature.—At the commencement of the month temperature was generally somewhat in defect of the normal, the average for the first week showing a mean defect of about 0·6°. During the second week there was an increase in the mean temperature of the province of no less than 4° and temperature thus became decidedly in excess of the normal. A further very rapid increase took place in the third week, and for this period temperature was in excess of the normal by between 3° and 4°, while in Behar the excess was nearly 5°. The excess then commenced to decrease. For the whole month the average mean temperature of the province has been 1·6° in excess of the normal. In Assam the general temperature has been 2·2° in excess of the normal.

The following table will show the principal variations of temperature from the normal, week by week, during the entire month:—

Stations.	Week ending 8th March.			Week ending 15th March.			Week ending 22nd March.			Week ending 29th March.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack ...	+2·9	+2·8	+2·9	+3·8	−2·7	+0·6	+2·3	+2·2	+2·3	+4·8	+1·8	+3·3
Calcutta	−2·0	−2·2	−2·1	+1·7	−2·0	−0·1	+1·4	+2·3	+1·9	+2·0	+1·9	+2·0
Dacca	+2·0	−1·4	+0·3	+4·8	−2·5	+1·1	+2·9	+3·3	+2·6	+ 9	+2·5	+3·8
Burdwan	0	−1·6	−0·8	+4·5	−3·4	+0·6	+3·7	+4·4?	+4·0?	+4·5	+3·3	+3·9
Patna	−1·3	+1·7	+0·2	+2·6	+2·7	+2·7	+4·0	+8·8	+6·4	+2·5	+2·7	+2·6
Gya	−3·2	+0·9	−1·1	+2·5	+0·9	+1·7	+1·9	+3·0	+2·5	−0·6	+2·6	+1·0
Purneah	−2·2	+1·3	−0·5	+0·7	+1·5	+1·0	+0·7	+7·7	+4·3	+1·3	+0·5	+1·0
Hazaribagh	−1·0	+0·9	0	+3·1	+4·1	+3·6	+3·3	+4·4	+3·8	+1·0	+3·8	+2·4
Darjeeling	−0·3	−0·7	−0·5	+0·8	+1·6	+1·2	+3·0	+3·7	+3·4	+2·4	−2·1	0

Rainfall.—As stated previously, in no large district has the rainfall of the month been heavy. Average falls of about half an inch have been received in East and South-West Bengal and Chutia Nagpur; of about a third of an inch in South Behar; and of a fifth of an inch in Orissa; while the smallest falls have occurred in North Bengal and North Behar, where they have averaged only a tenth of an inch. Compared with the normals for the period, the actual falls expressed as a percentage become:—South Behar 73, Chutia Nagpore 47, South-West Bengal 35, North Behar 23, East Bengal 20, Orissa 19, and North Bengal 10.

The heaviest falls have occurred in the Noakhally district, which averages 3·29 inches, while in the Darjeeling Hills district an average of 2·62 inches has been received. In all

other districts the falls have been much smaller, and average amounts of between half and one inch are reported in the 24-Pergunnahs, Howrah, Hooghly, Bankoorah, Burdwan, Beerbhoom, Nuddea, Jessore, Khoolna, Chittagong, Backergunge, Shahabad, Loharduggа, and Maubhoom districts. The remaining districts have received falls of less than half an inch, and in the following districts the falls are less than a tenth of an inch:—Pooree, Cuttack, Midnapur, Dacca, Mymensingh, Bogra, Pubna, Rajshahye, Maldah, Dinagepur, Purneah, Mozufferpur, Durbhanga, Chumparun, Monghyr, and Bhagulpur.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of March 1889:—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	107·4	61·6	90·9	74·2	82·6	+1·7	0 20	1·10	—0·90	0 9	2·4	—1·5	51·83	55 47
South-West Bengal	106·4	56·8	94·2	69·9	82·1	+1·4	0·51	1·46	—0·95	1·7	2·9	- 1·2	57·13	54·45
East Bengal	102·0	53·5	90·1	67·9	79·0	+1·6	0·56	2 86	—2·30	1·6	4·5	—2·9	72·42	78·17
North Bengal	102·3	50·9	91·5	63·0	77·3	+1·5	0 12	1·22	—1·10	0·8	2 5	—1·7	56·66	72·23
North Behar	98·3	52·9	89·7	63·0	76·3	+1·2	0·09	0·39	—0·30	0·9	1·2	—0·3	45·70	49·61
South Behar	101·9	55·8	93·3	66·6	80·0	+1·9	0·30	0·41	—0·11	1·0	1·4	—0·4	51·67	44·71
Chutia Nagpur	96·5*	57·4*	90 0*	66·0*	78·0*	+2·0*	0·40	0·85	—0·45	1·7	2·4	—0·7	52·19	51·09
Assam	96·1	54·4	86·5	63·7	75·1	+2·2								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL,
The 9th April 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of March 1889.

	Inches.	Date.	Hour
The mean pressure of the month	29 902		
The average pressure of March from 24 years' registers ...	29·869		
The highest pressure in the month	30·163	5th	10h.
The lowest pressure in the month	29 674	27th	16h.
The range of pressure	0·489		
	Hours		
The total number of hours of bright sunshine during the month	261 7		
The maximum possible number of hours of sunshine ...	371·3		
	°		
The mean temperature of the month	80·2		
The average temperature of March from 24 years' registers ...	80 6		
The highest temperature in the month	98·3	27th.	
The lowest temperature in the month	60 8	6th.	
The range of temperature during the month	37·5		
The mean daily range of temperature	21·9		
The greatest range of temperature in one day	30·7	11th.	
	Per cent.		
The mean humidity of the month	71		
The average humidity of March from 24 years' registers ...	66		
	Inches.		
The mean vapour tension of the month	0·714		
The average vapour tension of March from 9 years' registers ..	0·702		
The mean cloud proportion of the month	2 67		
The average cloud proportion of March from 12 years' registers	2·34		
	Inches.		
The total rainfall of the month	0·92		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0·89		
The average fall of March from 48 years' registers ...	1·34		
The greatest fall in 24 hours	0·62	24th.	
	Days.		
The number of rainy days in the month	3		
The average number of rainy days in March from 24 years' registers	4		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	146·3		
The mean difference of sun and air temperatures	54·7		
The greatest sun temperature	154·5	9th.	
The greatest excess of sun over air temperature	63·9	9th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	63·6		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	6·5		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	10 8	12th.	
	Miles.		
The mean movement of the wind per day	84·7		
The greatest movement of the wind in one day	160·0	21st.	
The greatest movement of the wind in one hour	15·0	10 to 11 A.M. on the 21st.	
The number of hours with winds from each of the 8 points—			

N. 13, NE. 4, E. 9, SE. 14, S. 122, SW. 326, W. 128, NW. 56, Calm 72.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1·0° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 6th April 1889.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	Air Pressure.			Wind.		Station Observations. Temperature.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	29·876	29·888	—	Calm	180	97·5	3rd April	75·1	3rd April	90·2	77·4	83·8	—	80·5
		Gopalpore .	29·805	29·915	+·025	NNW	291	94·2	3rd ,,	74·8	3rd ,,	89·7	79·1	84·4	+4·1	83·6
		False Point ..	29·865	29·887	+·013	SW	257	98·5	4th ,,	78·1	3rd ,,	90·7	76·8	83·8	+0·3	83·3
	Cuttack	Cuttack ..	29·816	29·899	+·039	Calm	46	107·4	5th ,,	71·8	3rd ,,	99·8	75·6	87·7	+0·1	81·9
	Balasore	Balasore ..	29·819	29·879	+·013	SSW	180·8	102·5	4th & 5th April	70·9	30th March	97·5	74·7	86·1	+1·9	81·4
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·861	29·887	+·027	S & SSW	330	98·2	4th & 5th April	79·5	31st March, 3rd & 4th April	91·2	[illegible]	[illegible]·8	+2·2	83·2
	Midnapore	Midnapore .	29·728	29·882	+·019	S	74·6	106·4	5th ,,	68·2	3rd ,,	90·2	73·4	80·3	+0·3	80·8
	24-Pergunnahs ... ..., Howrah ... ..., Hooghly	Calcutta	29·851	29·874	+·022	SW	79	100·9	5th ,,	66·8	3rd ,,	94·3	73·5	83·9	−0·4	79·4
	Burdwan	Burdwan	29·740	29·851	+·003	South-Westerly.	48·3	104·7	5th ,,	67·4	3rd ,,	98·1	72·9?	85·5?	−0·3?	80·1
	Bankoora	Bankoora ..	29·546	29·848	—	W & Calm	80	105·1	5th ,,	68·1	31st March	98·9	73·0	86·0	—	81·8
	Beerbhoom ... .., West Burdwan	Raneegunge .	29·592	29·842	+·020	Westerly	61·9	105·5	5th ,,	68·7	31st ,,	98·8	72·7	85·8	−0·6	82·4
	Moorshedabad	Berhampore	29·702	29·860	+·025	Southerly	87·7	103·7	5th ,,	65·2	3rd April	98·7	69·7	84·2	−1·2	77·7
	Nuddea	Krishnaghur	29·810	29·88[illegible]	+·023	W	98·8	103·4	5th ,,	62·7	31st March	97·6	70·2	83·9	+1·6	79·9
	Jessore ... ..., Khoolna	Jessore	29·830	29·870	+·018	SSW	64·0	103·8	5th ,,	67·0	1st April	98·3	72·7	85·5	+0·7	80·6
East Bengal.	Chittagong	Chittagong	29·823	29·91[illegible]	+·005	Southerly	100·5	95·3	4th ,,	70·0	31st March	90·7	72·4	81·5	+1·5	78·7
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·876	29·888	+·020	Southerly	114·0	96·3	5th April	71·9	2nd & 5th April	94·1	76·8	85·4	+5·1	80·1
	Noakholly	Noakholly	29·843	29·887	+·009	SSW	152·1	91·7	4th ,,	68·9	3rd ,,	89·4	73·1	81·3	+1·7	80·7
	Furreedpore	Furreedpore	29·838	29·878	+·017	SSW	103·0	100·0	5th ,,	65·5	31st March	89·3	71·6	80·5	−1·3	79·3
	Dacca	Dacca	29·848	29·871	+·012	SW	50·0†	100·6	5th ,,	66·7	3rd ,,	96·0	73·1	84·5	+1·7	79·3
	Commillah	Commillah	29·813	29·879	+·001	S	126·1	99·3	1st ,,	60·8	3rd ,,	96·4	72·7	84·6	+4·4	78·8
	Mymensingh	Mymensingh	29·814	29·874	+·018	ESE	104·2	98·2	3rd ,,	63·4	3rd ,,	95·6	68·5	82·0	+2·6	76·6
North Bengal.	Bogra	Bogra	29·776	29·840	+·016	ESE	70·6	100·8	5th ,,	64·9	31st March	98·2	67·8	83·0	+1·6	75·8
	Pubna	Serajgunge	29·813	29·850	+·003	Westerly	55·7	101·3	3rd ,,	62·0	31st ,,	98·3	66·0	82·2	−0·5	76·8
	Rajshahye	Rampore Beauleah.	29·780	29·851	+·02[illegible]	SW	88·2	99·8	5th ,,	67·2	31st March & 3rd April	96·7	69·9	83·3	+1·3	77·4
	Maldah .. .	Maldah*	29·774	29·857	—	Southerly	8[illegible]·2	99·7	2nd ,,	62·2	31st March	98·7†	64·9†	81·8†	—	78·3
	Dinagepore	Dinagepore	29·743	29·865	+·048	SW & NE	103	98·1	1st, 2nd & 5th April	59·7	31st ,,	95·8	64·4	80·1	−1·1	76·6
	Rungpore	Rungpore	29·755	2[illegible]·882	+·048	ESE	89	90·2	1st ,,	60·5	2nd April	92·7	63·8	78·2	−0·4	74·3
	Julpigoree ... ..., Cooch Behar	Julpigoree	2[illegible]·578	29·873	+·037	E	70·0*	91·0	1st, 2nd & 3rd April	56·9	31st March, 1st, 2nd & 3rd April	89·3	59·2	74·3	−1·0	72·3
	Darjeeling Hill Tracts ..	Darjeeling	22·987	—	+·050	SSW	244·3	63·5	2nd ,,	38·9	2nd ,,	62·1	45·3	53·7	+0·3	68·8
North Behar.	Purneah ... .., North Bhagulpore ...	Purneah ..	29·726	29·855	+·033	Calm	80·1	90·2	2nd ,,	59·0	31st March	95·8	64·3	80·1	−1·9	75·9
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·680	29·851	+·026	WSW	130	94·9	1st April	67·9	3rd April	92·4	71·9	82·4	+1·6	76·9
	Chumparun	Motihari ..	2[illegible]·025	29·855	+·051	Variable	230	98·8	4th ,,	54·9	1st ,,	97·2	62·7	80·0	+0·8	82·0
	Sarun	Chupra ..	29·650	29·816	+·018	WSW	159·1	107·5	30th March	66·6	1st ,,	102·6	69·6	86·2	+4·6	82·5
South Behar.	Shahabad	Dehree	29·490	29·858	+·019	SW & SSW	209·4	103·0	5th April	70·5	31st March	100·5	73·2	86·9	+2·9	82·8
		Buxar	29·604	29·819	+·007	W	166·5	101·4	5th ,,	66·3	1st April	98·0	70·2	84·1	+1·9	80·2
		Arrah	29·618	29·849	+·024	Westerly	68·1	103·3	5th ,,	65·7	1st ,,	99·7	69·3	84·5	+1·9	78·2
	Gya	Gya	29·491	29·873	+·014	WSW	170·0	103·2	5th ,,	70·8	1st ,,	99·8	73·8	86·8	+0·7	81·6
	Patna	Bankipore	29·663	29·849	+·023	W	87·3	103·0	5th ,,	67·1	1st ,,	100·1	70·4	85·3	+1·3	79·9
	South Bhagulpore .., Monghyr	Bhagulpore	29·673	29·838	+·020	W	73	98·7	1st & 5th April	65·0	31st March	96·5	68·4	82·5	+0·3	78·7
	Sonthal Pergunnahs ..	Doomka .	29·358	29·851	+·025	Calm	67·5	102·7	5th ,,	68·8	3rd April	97·7	71·4	84·6	−0·3	85·3
Chota Nagpore.	Hazaribagh	Hazaribagh ..	27·876	29·876	+·031	W	203·0	97·2	5th ,,	68·6	31st March	93·7	71·1	82·4	+1·0	81·2
	Lohardugga ... ..., Manbhoom	Ranchee ..	27·755	29·874	+·026	Westerly	84·3	97·0	5th ,,	65·0	3rd April	91·6	70·7	81·2	+0·3	80·6
	Singbhoom	Chyebassa ...	29·111	29·882	+·038	SW	38·5	105·9	5th ,,	66·4	30th & 31st March	97·8	71·1	84·5	+2·5	79·3

* Mean of six days. † Mean of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

...for the week ending Friday, the 5th of April 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of March. Mean for district.	Since 1st of March. Normal mean.	Since 1st of March. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station	District.	Meteorological Division.
90	1 4	Nil	Nil	0·13	0 02	0 89	−0·87	44 77	57 40	−12·63	0·0	0 4	Pooree	Pooree	Orissa.
4	2 3	Nil		—	—	—	—	—	—	—	—	—	Gopalpore		
87	3 9	Nil		—	—	—	—	—	—	—	—	—	False Point		
61	3·7	Nil	Nil	0·16	0·03	1·27	−1·24	53·14	54 07	−0·93	0 0	0 4	Cuttack	Cuttack	
74	1·4	Nil	Nil	0·23	0 46	1 44	−0·98	54 71	55 81	− 1 10	0·0	0 5	Balasore	Balasore	
79	4·3	Nil	Nil	0·14	0·06	1·33	−1·27	56 75	65·10	− 8·35	0 0	0·4	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal
63	[illegible]	Nil	Nil	0 22	0·01	1 69	−1 68	65·27	54 26	+11·01	0 0	0 4	Midnapore	Midnapore	
83	3·0	Nil	Nil	0·44	0 54	1 72	−1·18	65 10	54·63	+10·47	0 0	0·6	Calcutta	24-Pergunnahs; Howrah; Hooghly	
60	3·6	Nil	Nil	0 35	0 30	1·59	−1 29	56·92	49 32	+7·60	0 0	0·5	Burdwan	Burdwan	
42	3·3	Nil	Nil	0·06	0 62	1·19	−0·57	54·02	54 14	−0·12	0 0	0·2	Bankoora	Bankoora	
42	2·6	Nil	Nil	0·15	0·76	0 72	+0 04	59 68	53 30	+6·38	0 0	0·4	Raneegunge	Beerbhoom; West Burdwan	
64	3·1	Nil	Nil	0·23	0·26	1·08	−0 82	49 96	52·43	−2·47	0 0	0 4	Berhampore	Moorshedabad	
69	2·9	Nil	Nil	0·46	0·82	2 09	−1·27	56 23	52 26	+3·97	0 0	0 7	Krishnaghur	Nuddea	
83	3 0	Nil	Nil	0·43	0 73	2 44	−1·71	45 85	56 79	−10 94	0 0	0 6	Jessore	Jessore; Khoolna	
83	6·6	Nil	Nil	0 35	0 63	2·17	−1·54	127·04	116·71	+10·33	0 0	0 6	Chittagong	Chittagong	East Bengal.
			0·05	0 58	0 76	3·17	−2 41	74 46	85 71	−11 25	0 5	0 8	Demagiri	Chittagong Hill Tracts	
84	4 0	Nil	0 22	0 35	0 66	2 27	−1 61	74 18	80·37	−6·19	0 3	0·7	Burrisal	Backergunge	
82	3·7	0 39	0 61	0·59	3 72	4·09	−0·37	110 98	112 32	−1 34	1 0	0 8	Noakholly	Noakholly	
79	1 6	0·56	0·14	0·43	0 38	2 96	−2 58	48 83	60 24	−11 41	0 3	0 7	Furreedpore	Furreedpore	
79	3 0	Nil	Nil	0 19	0 05	3 50	−3·45	56 78	64·53	−7 75	0·0	0 8	Dacca	Dacca	
84	5 9	0 30	0 14	0·69	0·41	4 50	−4·09	63·44	74 88	−11·44	0·5	0 9	Commillah	Tipperah	
79	4 1	Nil	0 24	0 48	0 31	2 55	−2 24	67·78	70 80	−3 02	0·2	0 7	Mymensingh	Mymensingh	
75	1 4	Nil	Nil	0 15	0 02	1 20	−1·18	46 47	59·22	−12·75	0 0	0 5	Bogra	Bogra	North Bengal.
79	2 6	Nil	Nil	0·46	0·02	1 85	−1 83	42 40	56·31	−13·82	0 0	0 7	Serajgunge	Pubna	
62	1·1	Nil	Nil	0 30	0·03	1 13	−1·10	47 94	55 85	−7 91	0 0	0 5	Rampore Beauleah	Rajshahye	
55	2·3	Nil	Nil	0 60	0·02	0 61	−0·59	43 85	55·43	−11·58	0·0	0 4	Maldah	Maldah	
51	1 3	Nil	Nil	0·12	0·02	0·73	−0 71	49·52	58 61	−9·09	0 0	0 4	Dinagepore	Dinagepore	
67	1·1	Nil	Nil	0 41	0 17	1 73	−1·56	59 40	76 00	−16 60	0 0	0 6	Rungpore	Rungpore	
68	0 3	Nil	Nil	0·70	0 39	2·41	−2 02	90 34	113 95	−23 61	0 0	0 9	Julpigoree	Julpigoree; Cooch Behar	
62	2·1	Nil	Nil	0 74	2 63	2 58	+0·05	105 17	124 57	−19 40	0 0	1 0	Darjeeling	Darjeeling Hill Tracts	
53	1·9	Nil	Nil	0·12	Nil	0·56	−0·56	51·29	59 72	−8 43	0 0	0 4	Purneah	Purneah; North Bhagulpore	North Behar.
			Nil	0·10	0 10	0·52	−0 42	44 01	44 48	−0·47	0 0	0·3	Mozufferpore	Mozufferpore	
46	1 3	Nil	Nil	0·03	0·06	0 33	−0 27	43 20	45 45	−2 25	0 0	0 2	Durbhunga	Durbhunga	
34	3·0	Nil	Nil	0·09	0 09	0·46	−0 37	44 81	47 65	−2 84	0·0	0 3	Motihari	Chumparun	
36	0	Nil	Nil	0·05	0·30	0·23	+0·07	41·68	43 62	−1 94	0 0	0·2	Chupra	Sarun	
32	1·1	Nil											Dehree		South Behar.
30	1·1	Nil	Nil	0·06	0 67	0 43	+0 24	44 42	40·85	+3·57	0·0	0 2	Buxar	Shahabad	
37	2·1	Nil											Arrah		
46	4·0	Nil	Nil	0 09	0 42	0 44	−0 02	52 87	42 52	+10 35	0 0	0 2	Gya	Gya	
40	2·9	Nil	Nil	0·06	0 17	0·34	−0·17	51·21	42 08	+9 13	0 0	0 2	Bankipore	Patna	
42	2·9	Nil	Nil	0 11	0 08	0 39	0 31	52 38	44 13	+8·25	0 0	0·3	Bhagulpore	South Bhagulpore; Monghyr	
28	0	Nil	Nil	0 09	0·16	0 60	−0·44	55 38	51 87	+3·51	0 0	0 3	Doomka	Sonthal Pergunnahs	
23	4·3	Nil	Nil	0 02	0·57	0·87	−0 30	58 59	51 90	+6 69	0 0	0 2	Hazaribagh	Hazaribagh	Chota Nagpore.
36	4·1	Nil	Nil	0·09	0·53	0 84	−0 31	52 30	50 59	+1 71	0·0	0 3	Ranchi	Lohardugga	
			Nil	0·08	0 33	0·83	−0 50	48 14	48 73	−0 59	0·0	0·3	Ranchi	Manbhoom	
36	2·9	Nil	Nil	0·23	0 32	1·27	−0 95	41·30	53 66	−12·36	0 0	0 5	Chyebassa	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 5th of April 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 30th March 1889.	Sunday, 31st March.	Monday, 1st April.	Tuesday, 2nd April.	Wednesday, 3rd April.	Thursday, 4th April.	Friday, 5th April.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of March.	Average total rainfall from 1st of March.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA	Pooree	Pooree	...	...	...	...	...	...		Nil	Nil	Nil	0·61	41·24	52·74
		Khurdah	...	...	...	...	...	...		Nil	Nil	0·07	0·89	44·55	58·00
		Banpur	...	...	...	...	...	...		Nil	Nil	Nil	0·79	37·00	52·29
		False Point	...	...	...	...	...	...		Nil	Nil	Nil	1·24	56·28	60·84
		Gop		...	...	...	...	...		Nil	Nil	Nil	?	?	?
		Pipli	...	...	...	...				Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingpore								Nil	Nil	Nil*	0·88	58·64	48·54
		Banki	...	...	...	...	...	...	...	Nil	Nil	0·02	1·62	45·05	53·04
		Cuttack		...	...	...				Nil	Nil	0·04	1·32	53·04	48·37
		Kendrapara	...		...	...	...	...	...	Nil	Nil	0·01	0·90	46·00	55·12
		Jajpore	...	...	...	...				Nil	Nil	0·10	1·50	62·40	56·77
		Dharmsala		...	...	...		...	...	Nil	Nil	0·25	?	57·73	?
		Salipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Balasore	Chandbali	...	...		...		...	...	Nil	Nil	0·30	1·18	53·[illegible]	54·44
		Bhuddruck	...	...	...	...	...	...		Nil	Nil	1·61	1·46	51·00	54·67
		Sorah	...	...		...	...	...	...	Nil	Nil	0·67	1·73	51·89	53·61
		Balasore	...	...	...			...	...	Nil	Nil		1·57		60·69
		Jellasore	...					...		Nil	Nil	0·08	1·06	56·99	54·02
		Baripodah	...	...	...	...	...	...	...	Nil	Nil	0·09	1·41	56·15	55·89
SOUTH WEST BENGAL.	Midnapore	Contai	...	...	...	...	...	...	...	Nil	Nil	0·16	1·12	52·64	63·69
		Saugor Island	...	...	...					Nil	Nil	Nil	1·32	63·60	69·58
		Tumlook	...		...	...				Nil	Nil	Nil	1·13	67·90	54·5
		Midnapore	...	...	...	...		...		Nil	Nil	Nil	1·51	70·22	51·29
		Ghattal	...	...	...					Nil	Nil	0·03	1·63	58·39	57·07
		Kukrahaty	...		...	...	...			Nil	Nil	Nil	?	67·51	?
		Heria	...	...	...	...		...	...	Nil	Nil	0·15	?	5[illegible]·96	?
		Bhagwanpore	...	...	...	...		...	...	Nil	Nil	0·15	?	56·18	?
		Garbeta	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·80	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...		...	...	Nil	Nil	0·03	1·55	59·60	61·76
		Canning Town	...	...		...	...			Nil	Nil	0·22		57·58	?
		Alipore Jail	...		...	...	...			Nil	Nil	1·16	2·00	66·98	50·04
		Barrackpore	...		...		...			Nil	Nil	0·31	1·93	64·40	51·41
		Dum-Dum	...		...	...		...		Nil	Nil	1·06	1·81	67·62	51·[illegible]5
		Baraset	...	...	...	...	...	...		Nil	Nil	0·36	1·[illegible]7	67·84	52·31
		Buseerhat		...	...	...	...	...		Nil	Nil	0·29	2·29	53·33	57·77
	Howrah	Howrah	...	...	...	...	...	...		Nil	Nil	0·98	1·87	69·33	55·06
		Mohesroka (*Ooloberiah.*)	...	...	...	...	...	...		Nil	Nil	0·24	1·24	62·97	54·67
	Hooghly	Serampore	...	...	...	...	...			Nil	Nil	0·32	1·[illegible]6	68·02	52·80
		Hooghly		...			...	...		Nil	Nil	0·2[illegible]	1·48	68·11	50·83
		Jehanabad	...	...	...	...		...	...	Nil	Nil	0·47	1·21	63·[illegible]	57·[illegible]2
	Burdwan	Culna		...	...	...	...	...		Nil	Nil	0·41	1·53	61·68	46·70
		Burdwan		...	...			...		Nil	Nil	0·16	1·73	4[illegible]·[illegible]7	50·[illegible]9
		Cutwa	...	...	...	...	...		...	Nil	Nil	0·43	1·[illegible]0	61·71	50·44
		Raneegunge	...	...	...				...	Nil	Nil	0·48	0·69	59·32	50·36
		Mankur	...	...	...			...	...	Nil	Nil	0·19	?	44·80	?
	Bankoora	Bankoora	...	...	...	...	...	...		Nil	Nil	0·57	1·[illegible]8	50·06	53·56
		Bishenpore		...	...	...	...			Nil	Nil	1·[illegible]8	1·37	57·33	54·56
		Mahara	...	...	...					Nil	Nil	0·24	0·73	51·[illegible]5	53·19
		Khatra		...	...	...	...	...		Nil	Nil	Nil	1·28	56·6[illegible]	5[illegible]·98
		Indas	...	...	...	...		...	...	Nil	Nil	0·27	?	42·21	?
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	0·62	?	50·18	?
		Anda	...	...	...	...		...		Nil	Nil	0·50	?	39·51	?
		Gangajalghati	...	...	...	...		...		Nil	Nil	0·23	?	[illegible]8·26	?
		Karpore	...	...	...	...		...		Nil	Nil	0·4[illegible]	?	56·35	?
		Sonamukhi	...		...		...	...		Nil	Nil	1·12		47·92	?
	Beerbhoom	Bh. Soory	...	...	...	...		...	...	Nil	Nil	0·53	0·74	56·07	55·35
		Hetampore		...	...	...		...	...	Nil	Nil	0·41	0·60	49·82	55·84
		Rampore Haut		...	...	...	...	...	...	Nil	Nil	1·59	0·81	74·47	53·08
		Bolpore		...	...	...	...	...		Nil	Nil	0·49	?	64·22	?
		Murarai		...	...	...	...	...		Nil	Nil		?		?
	Nuddea	Ranaghat	...	...	...	...	...	...	...	Nil	Nil	0·49	1·85	65·15	49·80
		Kishnaghur		...	...				...	Nil	Nil	0·14	1·6[illegible]	70·37	48·47
		Chooadanga	...		...					Nil	Nil	0·95	2·11	54·92	54·24
		Meherpore	...		...					Nil	Nil	2·21	2·65	53·13	51·18
		Kooshtea	...		...			...		Nil	Nil	Nil	2·19	37·56	57·06
	Khoolna	Satkhira		...	...	...			...	Nil	Nil	1·35	2·77	41·58	58·75
		Bagirhat			...	...	...			Nil	Nil	0·57	1·99	52·01	6[illegible]·82
		Khoolna		...	...			...		Nil	Nil	0·64	2·38	49·84	58·41
	Jessore	Narail	...						...	Nil	Nil	0·83	2·15	[illegible]2·55	40·44
		Jessore		...				...		Nil	Nil	0·91	2·78	58·21	58·19
		Jhenidah			...				...	Nil	Nil	0·15	2·77	37·09	57·25
		Magoorah		...	...		...			Nil	Nil	0·57	2·72	41·50	52·11
		Bongong								Nil	Nil	0·5	[illegible]·92	50·92	54·79
	Moorshedabad	Kandi	...						...	Nil	Nil	0·81	1·[illegible]8	53·10	52·05
		Berhampore	...	...						Nil	Nil	0·29	1·20	[illegible]3·62	5[illegible]·51
		Lalbagh								Nil	Nil	0·19	0·98	49·[illegible]1	52·55
		Azimgunge	...					...		Nil	Nil	Nil	1·19	?	54·10
		Jungipore	...						...	Nil	Nil	0·[illegible]6	0·89	49·51	50·70
		Lalgola				...			...	Nil	Nil	0·[illegible]6	1·10	51·29	52·96
		Jiagunge	...		...			...	...	Nil	Nil	0·14	?	49·40	?
		Akhrigunj		...					...	Nil	Nil	Nil	?	50·08	?
		Pathabari		...			...		...	Nil	Nil	Nil	?	44·29	?
EAST BENGAL	Chittagong	Cox's Bazar	...		...			...		Nil	Nil	0·76	1·95	147·50	1[illegible]6·22
		Chittagong	...		...	...		...	...	Nil	Nil	0·58	2·[illegible]	10[illegible]·50	97·28
		Kutubdia	...	...		...	...	...		Nil	Nil	0·36	?	117·92	?
		Satkanya	...	...	...			...		Nil	Nil	0·65	?	92·32	?
	Chittagong Hill Tracts.	Rangamati	...	...	...	...	0·10	...	...	1	0·10	0·82	3·40	77·21	86·20
		Ruma	...	...	...	...	...	...	...	Nil	Nil	0·70	2·97	71·09	83·20
	Backergunge	Patuakhally	...	...	...	...		...	...	Nil	Nil	0·35	1·84	88·02	90·52
		Perozepore	...	...	...	...	...	...		Nil	Nil	0·27	1·74	62·58	73·13
		Burrisal	...	...	...	...	...	...	...	Nil	Nil	0·78	2·91	68·22	71·07
		Bhola	0·87	...	...	...	...	...	...	1	0·87	1·53	2·50	77·56	84·93

Statement of Rainfall in Bengal for the week ending Friday (6 p m.), the 5th of April 1889 —contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 30th March.	Sunday, 31st March.	Monday, 1st April.	Tuesday, 2nd April.	Wednesday, 3rd April.	Thursday, 4th April.	Friday, 5th April.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of March.	Average total rainfall from 1st of March.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi*	...	...	...	...	...	...	...	Nil	Nil	1.00	...	51.83	...
		Bauphal	...	...	...	1.00	...	...	...	1	1.00	1.26	...	100.77	...
	Noakholly	Noakholly	0.37	...	...	...	...	...	...	1	0.37	3.12	3.83	111.66	112.54
		Fenny	...	...	...	...	0.85	...	...	1	0.85	4.30	4.34	110.28	112.04
		Harishpore	0.01	...	...	...	...	...	...	1	0.01	0.56	...	131.22	...
		Ramganj	...	...	...	0.33	...	...	...	1	0.33	1.00	...	90.94	...
	Furreedpore	Madaripore	...	...	...	...	...	...	...	Nil	Nil	0.26	3.12	47.03	59.95
		Furreedpore	...	...	...	0.43	...	...	...	1	0.43	0.70	3.24	54.1[illegible]	60.89
		Goalundo	...	...	...	...	...	...	...	Nil	Nil	0.19	2.53	45.36	56.66
	Dacca	Munshigunge	...	...	...	...	...	...	...	Nil	Nil	0.09	4.61	61.77	76.08
		Dacca	...	...	...	...	...	...	...	Nil	Nil	0.11	3.10	53.80	62.91
		Naraingunge	...	...	...	...	...	...	...	Nil	Nil	0.03	3.78	63.96	64.57
		Manickgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	2.27	47.63	53.44
		Joydebpore	...	...	...	...	...	...	...	Nil	Nil	0.01	...	59.50	...
	Hill Tipperah	Agartola	...	...	...	...	...	...	...	Nil	Nil	Nil	4.80	54.42	67.57
	Tipperah	Comilla	...	...	...	...	0.49	...	...	1	0.49	0.49	4.21	70.66	81.10
		Chandpore	...	...	...	...	...	...	...	Nil	Nil	0.90	3.54	59.17	82.36
		Brahmunbaria	...	...	...	...	...	0.06	...	1	0.06	0.18	5.31	70.41	67.89
		Ramchandrapore.	...	...	...	0.03	...	...	...	1	0.03	0.08	...	60.89	...
		Nasirnagar	...	...	...	0.15	...	...	...	1	0.15	0.45	...	59.14	...
		Daudkandi	...	...	...	...	...	...	...	Nil	Nil	0.50	...	64.68	...
		Kasba	...	...	...	...	...	...	...	Nil	Nil	0.44	...	57.09	...
		Laksham	...	...	...	...	...	...	...	Nil	Nil	1.10	...	81.41	...
	Mymensingh	Kishoregunge	...	...	...	1.19	...	...	...	1	1.19	1.19	3.74	84.72	74.68
		Atia (*Tangail*)	...	...	...	...	...	...	...	Nil	Nil	Nil	1.61	39.12	58.21
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	0.05	2.63	70.07	77.50
		Jamalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.72	6[illegible].98	68.00
		Netrokona	...	...	...	...	...	...	...	Nil	Nil	0.28	3.02	77.97	75.30
		Subornakhally	...	...	...	...	...	...	...	Nil	Nil	0.03	...	62.17	...
		Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	...	110.01	...
		Sherepore town	...	...	...	...	...	...	...	Nil	Nil	Nil	...	...	...
		Dewanganj	...	...	...	...	...	...	...	Nil	Nil	Nil	...	55.76	
NORTH BENGAL.	Pubna	Pubna	...	...	...	...	...	...	...	Nil	Nil	0.04	2.12	40.87	57.04
		Serajgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	1.56	44.09	55.41
	Bogra	Sherpore	...	...	...	...	...	...	...	Nil	Nil	0.03	1.53	43.73	60.22
		Nowkhilla	...	...	...	...	...	...	...	Nil	Nil	0.05	1.23	51.87	56.76
		Bogra	...	...	...	...	...	...	...	Nil	Nil	Nil	1.13	43.31	62.57
		Panchbibi	...	...	...	...	...	...	...	Nil	Nil	Nil	0.90	46.99	57.19
	Rajshahye	Beauleah	...	...	...	...	...	...	...	Nil	Nil	0.06	1.00	33.92	54.69
		Nattore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.22	61.98	57.04
		Naogaon	...	...	...	...	...	...	...	Nil	Nil	Nil	...	39.65	...
		Lalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	...	40.03	...
		Manda	...	...	...	...	...	...	...	Nil	Nil	Nil	...	32.84	...
	Maldah	Maldah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.80	51.85	53.04
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	0.03	0.40	35.79	57.74
		Gajol	...	...	...	...	...	...	...	Nil	Nil	Nil	...	40.5[illegible]	...
		Sibganj	...	...	...	...	...	...	...	Nil	Nil	0.17	...	48.78	...
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	0.04	0.77	41.24	59.77
		Churamon	...	...	...	...	...	...	...	Nil	Nil	Nil	0.49	50.79	54.04
		Raigunge	...	...	...	...	...	...	...	Nil	Nil	0.02	0.64	53.56	60.45
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.00	59.79	65.59
		[illegible]	...	...	...	...	...	...	...	Nil	Nil	Nil	0.69	4[illegible]	54.33
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	0.20	...	53.22	...
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	...	...	Nil	Nil	Nil	1.76	48.55	63.92
		Rungpore	...	...	...	...	...	...	...	Nil	Nil	0.10	1.48	55.70	76.50
		Kurigram	...	...	...	...	...	...	...	Nil	Nil	0.25	2.[illegible]	70.76	76.19
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	Nil	Nil	0.02	1.33	56.48	87.11
		Ulipore	...	...	...	...	...	...	...	Nil	Nil	0.65	...	57.[illegible]	?
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	Nil	Nil	Nil	2.50	107.10	120.25
		Alipore Duar	...	...	...	...	...	...	...	Nil	Nil	3.14	...	85.58	...
		Fallacotta	...	...	...	...	...	...	...	Nil	Nil	0.45	...	93.02	...
		Debiganj	...	...	...	...	...	...	...	Nil	Nil	Nil	...	64.23	...
		Bhogolpore (Nagrakatta).	...	...	...	...	...	...	...	Nil	Nil	2.31	...	...	...
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	Nil	Nil	0.56	2.04	93.61	95.44
		Cooch Behar	...	...	...	...	...	...	...	Nil	Nil	0.15	2.79	94.58	121.60
		Mekligunge	...	...	...	...	...	...	...	Nil	Nil	0.12	1.81	79.07	110.33
		Matabhanga	...	...	...	...	...	...	...	Nil	Nil	1.11	3.07	77.32	120.20
	Darjeeling Hill	Buxa	...	...	...	...	...	...	...	Nil	Nil	6.25	4.13	116.54	197.80
		Siliguri	...	...	...	...	...	...	...	Nil	Nil	2.08	1.82	86.71	105.67
		Darjeeling	...	...	...	...	...	...	...	Nil	Nil	0.30	2.40	93.06	111.93
		Kalimpong	...	...	...	...	...	...	...	Nil	Nil	1.7[illegible]	1.91	74.30	86.12
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.69	49.51	71.04
		Arrareah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.67	53.47	64.[illegible]
		Purneah	...	...	...	...	...	...	...	Nil	Nil	0.01	0.59	46.85	62.53
		Gondwara	...	...	...	...	...	...	...	Nil	Nil	Nil	...	...	
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	...	...	...
		Manari	...	...	...	...	...	...	...	Nil	Nil	Nil		...	
		Kaliaganj	...	...	...	...	...	...	...	Nil	Nil	Nil	...	59.67	...
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	61.06	50.65
		Soopool	...	...	...	...	...	...	...	Nil	Nil	Nil	0.42	45.53	49.14
		Protapganj	...	...	...	...	...	...	...	Nil	Nil	Nil		41.14	...
	Durbhunga	Tajpore	...	...	...	...	...	...	...	Nil	Nil	0.[illegible]7	0.24	46.10	53.84
		Durbhunga	...	...	...	...	...	...	...	Nil	Nil	0.10	0.50	39.21	40.70
		Madhubani	...	...	...	...	...	...	...	Nil	Nil	Nil	0.44	44.32	46.0[illegible]
		Bahera	...	...	...	...	...	...	...	Nil	Nil	0.05	...	55.51	...
		Rosera	...	...	...	...	...	...	...	Nil	Nil	Nil		47.09	
	Mozufferpore	Sitamarhi	...	...	...	...	...	...	...	Nil	Nil	0.03	0.72	36.51	44.20
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	0.15	0.44	48.10	46.60
		Hajipore	...	...	...	...	...	...	...	Nil	Nil	0.10	0.40	49.42	42.90
		Paru	...	...	...	...	...	...	...	Nil	Nil	Nil	...	40.00	
		Manua	...	...	...	...	...	...	...	Nil	Nil	0.10	...	40.29	...
		Sirhar	...	...	...	...	...	...	...	Nil	Nil	Nil	...	42.94	...
		Pupri	...	...	...	...	...	...	...	Nil	Nil	Nil	...	25.56	...
	Chumparun	Motihari	...	...	...	...	...	...	...	Nil	Nil	0.04	0.44	40.03	45.56
		Bettiah	...	...	...	...	...	...	...	Nil	Nil	0.13	0.45	49.[illegible]	43.69
		Bagaha	...	...	...	...	...	...	...	Nil	Nil	0.09	...	56.22	...
		Burhurwa	...	...	...	...	...	...	...	Nil	Nil	0.10	...	43.17	...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 5th of April 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 30th March.	Sunday, 31st March.	Monday, 1st April.	Tuesday, 2nd April.	Wednesday, 3rd April.	Thursday, 4th April.	Friday, 5th April.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of March.	Average total rainfall from 1st of March.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	0·30	0·14	41·34	44·04
		Sewan	...	...	...	...	...	...	...	Nil	Nil	0·25	0·24	44·44	44·71
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	0·34	0·31	39·25	41·46
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	0·04	0·30	43·33	38·21
		Dehree	...	...	...	...	...	...	...	Nil	Nil	1·15	0·61	46·13	39·82
		Bhubooah	...	...	...	...	...	...	...	Nil	Nil	0·75	0·58	42·22	42·50
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	1·22	0·28	44·11	41·43
		Arrah	...	...	...	...	...	...	...	Nil	Nil	0·18	0·37	46·34	41·12
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	0·51		36·29	
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0·27	0·49	55·14	43·05
		Gya	...	...	...	...	...	...	...	Nil	Nil	0·80	0·37	56·01	43·54
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	0·35	0·40	51·18	41·05
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	0·25	[illegible]	49·12	41·56
		Arwal	...	...	...	...	...	...	...	Nil	Nil	0·23		[illegible]	
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil		[illegible]	
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	Nil		55·35	
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil		28·58	
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	0·20		58·01	
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	0·25	0·35	43·51	42·71
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	0·33	0·22	45·24	42·10
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	56·52	42·91
		Barh	...	...	...	...	...	...	...	Nil	Nil	0·20	0·38	59·61	40·00
		Bickram	...	...	...	...	...	...	...	Nil	Nil	0·15		41·05	
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	0·28		50·16	
	Monghyr	Begoosarai	...	...	...	...	...	...	...	Nil	Nil	0·15	0·25	51·78	40·98
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	0·10	0·35	56·93	47·38
		Jamui	...	...	...	...	...	...	...	Nil	Nil	0·17	0·47	52·50	44·19
		Gogri	...	...	...	...	...	...	...	Nil	Nil	0·09		64·76	
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil		60·73	
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	56·73	43·08
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·47	44·01	45·75
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil		53·84	
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·36	48·72	52·69
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0·43	52·17	46·14
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0·04	0·58	65·17	56·20
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	0·19	0·81	54·62	54·75
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	0·17	0·63	54·00	51·30
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	0·55	0·77	57·59	49·36
		Mohagama	...	...	...	...	...	...	...	Nil	Nil	Nil			
		Nunihat	...	...	...	...	...	...	...	Nil	Nil	Nil		29·74	
CHUTIA NAGPUR.	Hazaribagh	Pachamba (Giridi).	...	...	...	...	...	...	...	Nil	Nil	0·38	0·68	58·51	48·81
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	0·98	0·74	56·86	40·49
		Sointakurah	...	...	...	...	...	...	...	Nil	Nil	0·41	1·26	50·78	47·55
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	0·06	0·81	55·87	49·82
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0·86	64·90	63·64
		Barhi	...	...	...	...	...	...	...	Nil	Nil	0·21		51·19	
		Chatra	...	...	...	...	...	...	...	Nil	Nil	0·26		58·22	
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	0·12		54·60	
		Ramghur										Nil			
	Lohardugga	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	0·70	0·66	49·34	53·59
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	0·30	1·19	53·94	54·44
		Palamow	...	...	...	...	...	...	...	Nil	Nil	0·55	0·65	53·60	44·51
		Silli	...	...	...	...	...	...	...	Nil	Nil	0·10			
		Balumat	...	...	...	...	...	...	...	Nil	Nil				
		Husseinabad	...	...	...	...	...	...	...	Nil	Nil	0·81			
		Garwah	...	...	...	...	...	...	...	Nil	Nil	0·65		48·08	
	Singbhoom	Chyebassa	...	...	...	...	...	...	...	Nil	Nil	0·32	1·27	41·30	53·81
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil		55·67	
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	Nil		55·19	
		Baharagura	...	...	...	...	...	...	...	Nil	Nil	1·27		62·32	
	Manbhoom	Purulia	...	...	...	...	...	...	...	Nil	Nil	0·19	1·12	58·25	51·10
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	0·47	0·54	38·00	46·47
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	0·40		55·83	
		Barrabhoom.	...	...	...	...	...	...	...	Nil	Nil	0·43		51·72	
		Jhalda													
		Chas													

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA *the 9th April* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 5TH APRIL 1889.

At the close of the previous week weather conditions were fairly normal, except for the fact that there was a shallow depression overlying North Bengal and Behar which, however, was showing decided signs of filling up and of moving in an easterly direction. On the 30th, or the first day of the present week, pressure fell rather rapidly in the centre and east of the province, and though pressure was relatively low over part of Bengal, the depression had practically disappeared and conditions became fairly normal. On the 31st pressure was rising, and this increase continued over the greater part of the province up to and including the 2nd; but by the morning of the 3rd the pressure commenced again to fall, showing that the highest point of the oscillation had been reached. The fall continued on the 4th, but on the 5th an increase again generally set in. This slow oscillation of pressure is characteristic of fine settled weather; and for the greater part of the week and over the greater part of the province weather has been fine, though in East Bengal at the commencement of the week a few local storms occurred. These local storms were perhaps in some way connected with the slightly disturbed conditions which had previously existed, and which at the commencement of the week were drifting in an easterly direction and filling up in their advance. Both East Bengal and later on Assam thus experienced a few local storms and received some showers, but for the week the greater part of Bengal has been almost absolutely rainless.

Pressure.—The variations of pressure have already been referred to, and for the week the mean pressure of the province has been about 0·02 inch in excess of the normal. This excess pressure has also been fairly equally distributed in the various districts.

Temperature—Has been subject to moderate fluctuations only. Compared with the normal, the mean temperature of the province has been only 1° in excess. In East Bengal, however, a larger excess of 2·2° is registered; while, on the other hand, the temperatures in North and South-West Bengal have been nearly normal. Most districts have reported decidedly high maximum temperatures, and in all except Chutia Nagpur, some stations have recorded temperatures in excess of 100°.

The following table will show the general temperature during the week. It contains the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province and their variation from the normal :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 5th April 1889.

	Normal mean maximum temperature for the week ending 5th April.	Actual mean maximum temperature for the week ending 5th April.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 5th April.	Actual mean minimum temperature for the week ending 5th April.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 5th April.	Actual mean daily temperature for the week ending 5th April.	Variation of actual mean from the normal.
Cuttack	99·7	99·8	+0·1	75·8	75·6	−0·2	87·8	87·7	−0·1
Calcutta	94·7	94·3	−0·4	73·9	73·5	−0·4	84·3	83·9	−0·4
Dacca	92·4	96·0	+3·6	73·2	73·1	−0·1	82·8	84·5	+1·7
Burdwan	98·1	98·1	0	73·4	72·9?	−0·5?	85·8	85·5?	−0·3?
Patna	97·8	100·1	+2·3	70·1	70·4	+0·3	84·0	85·3	+1·3
Gya	99·8	99·8	0	72·3	73·8	+1·5	86·1	86·8	+0·7
Purneah	96·3	95·8	−0·5	67·8	64·3	−3·5	82·0	80·1	−1·9
Hazaribagh	94·2	93·7	−0·5	68·6	71·1	+2·5	81·4	82·4	+1·0
Darjeeling	60·2	62·1	+1·9	46·5	45·3	−1·2	53·4	53·7	+0·3

Rainfall—During the week has been quite unimportant, and has been entirely confined to East Bengal ; but even here the average fall only equals 0·17 inch The district of Noakhally has received the largest fall, which here equals 0·61 inch. In the districts of Mymensingh and Backergunge average falls of nearly a quarter of an inch have been registered.

The following table gives the summary of the temperature and rainfall data of each of the seven Meterological divisions of the Province for the week ending Friday, the 5th April 1889 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of March.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	107 4	70·9	93 6	76·7	85·2	+1·6	Nil	0·18	—0·18	0·0	0·5	—0·5	0·20	[illegible]	[illegible]	[illegible]
South-West Bengal .	106 4	62·7	97 2	73·2	85 2	+0·3	Nil	0·31	—0·31	0·0	0 6	—0·6	0·51	1·63	57·13	54 67
East Bengal	100·6	65·4	93·1	72 6	82 8	+2·2	0·17	0·49	—0·32	0 3	0 8	—0 5	0·66	3 15	72·52	78·47
North Bengal	101·3	56·9	95·7	65·0	80·4	0	Nil	0·33	—0·33	0 0	0 6	—0·6	0·12	1·44	56 06	72·45
North Behar	107·5?	51·9	97 1	67 1	82·1	+1·3	Nil	0·08	—0·08	0·0	0·3	—0·3	0·09	0·50	45·70	49·72
South Behar ..	103 9	65·0	98·9	71·0	85·0	+1·2	Nil	0 08	—0·08	0·0	0 3	—0·3	0 30	0·44	51·67	44 74
Chutia Nagpur	97·2*	65·9*	92·7*	70·9*	81 8*	+0·6*	Nil	0·07	—0·07	0·0	0·3	—0·3	0 40	0 89	52 19	51·12

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 9th April 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 31st March to 6th April 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
March	31st	152 5	8 8	29·786	82 7	95 3	26·4	68·9	74·0	0 727	69 7	68	SW and SSW ..	80	Nil	Chiefly cloudy ≡, ⌓.
April	1st	142·4	1·1	·839	83 8	89 9	13 3	76·6	78·5	·904	76·2	79	W and SW by S ...	63	,,	Chiefly cloudy, o.
,,	2nd	145 0	2 0	·834	82 1	90 5	13 3	77·2	73 7	·725	69 6	68	SSW and WNW ...	52	,,	Chiefly cloudy, o, g.
,,	3rd	153·0	9 8	·778	82 6	98·6	32 0	66 6	70·5	·585	63 4	57	WSW and W ...	55	,,	Chiefly clear
,,	4th	155 1	9·8	·773	85·2	100 9	28·2	72 7	73·5	·671	67 4	60	SW and WSW	119	,,	Clear
,,	5th	156·1	9·4	·785	86 3	101 2	27·5	73·7	75·8	·751	70 8	64	SW by W and WSW	107	,,	Clear,
,,	6th	155 1	10 5	·786	86 8	101·1	27 7	73·4	75·2	·720	69·4	57	SSW and WSW ..	149	,,	Clear, ⌓.

	Inches.
The mean pressure of the seven days	29·797
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·789
	Hours.
The total number of hours of bright sunshine	51·4
The maximum possible number of hours of sunshine	86·6
	°
The mean temperature of the seven days	81·2
The average temperature of the corresponding period for 24 years, S. G.'s Office	84 2
The extreme variation of temperature	34·6
The maximum temperature	101·2
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	65
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	67
	Inches.
The total fall of rain from 31st March to 6th April 1889	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0 34
The total fall from 1st January to 6th April 1889	3·54
The average fall of the corresponding period for 24 years, S. G.'s Office ...	3·11

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, ≡ fog, ⌓ dew.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 8th April 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 23rd March 1889.

1		3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	6	15	21	9·1	22 9	32 0	40	4	..	6	..	1	3	14	6·1	.	9·1	...	1·5	4·6	21·4	51 9	5	9	14·4	29·2	55
Midnapore... ...	Midnapore	16,927	16,633	33,560	8	5	13	12 4	7·7	20·1	160	1	...	2	4	...	7	14	1 5	...	3 1	6 2	...	10·8	21·7	17·0	8	6	24·6	18·8	133
Hughli	Hughli and Chinsurah ..	19,179	19,539	38,718	14	7	21	18 8	9·4	28 2	200	2	...	3	1	..	4	10	2 7	...	4·0	1·3	...	5·4	13·4	14·8	5	5	13·6	13 3	100
Serampore ..	Serampore	13,559	12,937	26,496	11	7	18	21·6	13·7	35 3	157	.	...	5	6	...	4	15	.	...	9 8	11 8	...	7·8	29·4	33·4	10	5	38·4	20·1	200
	Utterpara	3,046	2,464	5,510	.	1	1	..	9 4	9 4	No male birth.	...	...		1	.	...	1	...	...	...	9·4	...	...	9·4	37·7	1	...	17·1	..	No female death.
Howrah ...	Howrah	53,153	37,660	90 813	18	10	28	10·3	5·7	16 0	180	9	...	12	5	..	11	37	5·1	...	6·9	2·9	...	6·3	21·2	20·6	19	18	18·6	24·9	105
	Bali	7,836	6,979	14,815	2	2	4	7·0	7 0	14 0	100	...	...	3	1	...	...	4	...	...	10·5	3·5	...	...	14·0	7·0	4	...	26·5	...	No female death.
24-Pergunnahs ...	Suburbs of Calcutta ..	147,205	104,234	251,439	47	29	76	9·7	6 0	15·7	163	41	3	42	19	...	54	159	8·5	·6	6·7	3 9	...	11·2	32·9	37·6	99	60	35·0	29·9	165
Nuddea ...	Kishnaghur	13,263	14,214	27,477	9	6	15	17·0	11·4	28·4	150	...	...	11	...	...	5	16	...	...	20·8	...	...	9·5	30·3	18·9	9	7	35·3	25·6	128
	Ranaghat	4,028	4,655	8,683	2	1	3	25 8	11·2	18 0	200	...	...	...	.	...	...	.	...	...	...	...	...	...	...	12·0	...	...	...	...	......
	Santipore	13,708	15,979	29,687	12	14	26	21·0	24·5	45 5	85	...	...	5	1	..	1	7	...	...	8·7	1 8	...	1·8	12·3	8·8	...	7	...	22·8	No male death.
Jessore	Jessore	4,830	3,665	8,495	3	3	6	18·3	18·3	36·7	100	...	...	6	...	...	2	8	...	...	36·7	...	...	12·2	49·0	24·5	5	3	53·8	42 6	166
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	14	9	23	36·8	23·6	60·4	155	1	...	10	..	...	...	11	2·6	...	26·3	...	...	...	28·9	34·2	6	5	29·0	28·8	120
Darjiling	Darjiling*	5,029	2,947	7,976	3	...	3	19·6	...	19·6	No female birth.	...	...	2	...	...	1	3	...	...	13 0	...	...	6·5	19·6	6·5	3	...	31·0	...	No female death.
Dacca ...	Dacca	42,782	37,379	80,161	9	6	15	5·8	3·9	9·7	150	5	1	9	...	...	17	32	3 2	·6	5·8	...	...	11·0	20·7	24·0	22	10	26·7	13 9	220
	Naraingunj	7,605	4,956	12,561	6	4	10	24 8	16·6	41·4	150	2	...	2	3	...	3	10	8 3	...	8 3	12 4	...	12·4	41·4	24·3	6	4	41 0	42·0	150
Chittagong ...	Chittagong	13,340	8,790	22,130	4	...	4	9·4	..	9·4	No female birth.	..	...	5	1	...	1	7	...	...	11·7	2·3	...	2·3	16·4	18·8	3	4	11·7	23·7	75
Tipperah	Comillah	8,153	5,353	13,506	4	10	14	15 4	38·5	53·9	40	4	...	3	...	...		7	15·4	...	11 6	...	..	...	27·0	11·5	1	6	6 4	58 3	16
Patna	Patna City	78,762	81,475	160,237	19	13	32	6·2	4 2	10·4	146	1	2	13	2	1	16	35	·3	·6	4·2	·6	·3	5·2	11 3	9·7	13	22	8·6	14·0	59
Gya	Gya	38,290	37,831	76,121	17	12	29	11·6	8·2	19 8	141	25		22	3	...	21	71	17·1	...	15 0	2·0	...	14·3	48·5	24 6	33	38	44 8	52 2	86
Shahabad	Arrah	20,960	22,505	43,465	11	8	19	13 1	9·6	22 7	137	...	..	3	1	...	4	8	. .	...	3·6	1·2	..	4·8	9·6	8·4	4	4	9·9	9·2	100
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	5	6	11	6 1	7 3	13 4	83	...	...	1	2	1	6	10	.	. .	1·2	2·4	1·2	7·3	12·2	6·1	2	8	4·5	21·2	25
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	26	36	62	20·5	25 3	18·8	72	1	1	17	2	1	4	26	·8	·8	13·4	1·6	·8	3·1	20·5	32·3	14	12	21·6	19 3	116
Sarun	Chupra	26,044	27,205	53,249	7	5	12	6 8	4·9	11 7	140	2		1		...	6	9	2 0	...	1·0	...	...	5·8	8·8	7 8	7	2	14·0	3·8	350
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	22	19	41	19·9	17 2	37 1	115	1	..	3	.	.	11	15	·9	...	2·7	...	.	10 0	13·6	21·7	6	9	10 5	16·8	66
Monghyr	Monghyr	28,154	29,366	57,520	19	15	34	17 2	13 5	30 7	126		..	9	4	2	7	22	. .	...	8 1	3·6	1·8	6·3	19 9	18·1	12	10	22·2	17·7	120
Purneah	Purneah	8,463	6,553	15,016	1	6	7	3 4	20 8	24 2	16	30	1	4	2	...	1	38	103·9	3·4	13·9	6·9	...	3·4	131 6	62 3	20	18	122·9	142·8	111
Puri	Puri	13,247	11,537	24,784	3	6	9	6 3	12 6	15·9	50	18	1	9	1		5	34	37·7	2·1	18·9	2·1	...	10·5	71·3	79·7	20	14	78·5	63·1	142
	Total ...	702,890	619,691	1,322,581	302	255	557	11·9	10·0	21 9	115	147	9	208	59	6	194	623	5 8	·4	8·2	2·3	·2	7·6	24 5	24·1	337	286	24·9	24·0	117

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

		13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	8	6	...	...	...	17·6	30 4	. .	...	2	2	2	2	...	2	2	1	...	1	157·6	46·1	44·6	41·3	......	13·1	15·1	11·8	... .	35·1
Midnapore	Midnapore	...	12	2	...	...	...	24 1	14·4	..	...	3	2	.	1	...	...	1	2	1	5	140·0	44·2	... .	17·1	......	......	9 4	27 9	25·2	142·1
Hughli	Hughli and Chinsurah ...	...	9	1	.	...	...	14·8	7·6	...	..	3	1	..	.	...	1	2	..	2	1	165·4	19·5	......	.. ..	......	6·8	14·8	... ..	31·8	20·7
Serampore	Serampore	...	15	...	...	...	..	30·9	...	...	...	4	...	...	2		2	2	3	2	...	293·0	......	.. ...	46·8	......	19·3	20·9	46·2	54 3	......
	Utterpara	...	1	...	...	..	...	9·8	. .	..	..	..	..	.	..	.	. .	.		1	..	......	......	......	......	... ..	......	...	......	141·3	....
Howrah	Howrah	...	28	9	..		..	21 4	22 9	.	..	5	6	1	...	2	5	5	3	3	7	126·0	56·3	8·3	......	14·2	11·5	13·5	13·3	25·4	97·0
	Bali	..	1	3	. .	..	..	3·9	119 0	..	..	...	1	..	.	..	1	1	..	...	1	. . ..	52·1	......	...	......	15·5	18·6	.. ...	......	71·0
24-Pergunnahs	Suburbs of Calcutta	3	98	58	.	.	38·5	34 0	31 2	..	..	24	18	6	7	17	20	21	13	17	16	261·9	57 9	15·8	20·3	49·1	17·9	21·2	19·9	52·1	58·4
Nuddea ...	Kishnaghur	..	7	9	.	..		19 5	56 5	.	...	3	1	.	...	1	6	3	1	...	1	314·5	21·1	......	......	25·3	64·9	36·4	15·9	......	30·1
	Ranaghat	...		.		.		..		.	..	...	...	...	...	...	.	...	...	...	.	... ..	......	......	......	......	......	......	......	......	......
	Santipore	...	6	1	.		..	15·1	5 8	...	..	...		...	1	.	2	...	1	...	3	... ..	... .	......	17 9	......	21·2	......	14·8	......	79·4
Jessore	Jessore	...	3	5	..	..		31 6	68·0	..	...	1	.	...	1	...	.	2	1	2	1	268·0	......	......	78·2	......	.. ..	68·0	49·5	184·5	113·5
Rajshahye	Rampore Beauleah	...	5	6	...	.	..	26 2	31 9	.	...	1	1	2	1	1	2	1	..	...	2	128·1	36 7	50 0	28·9	31·3	25·0	14·4	......	......	108·0
Darjiling	Darjiling	..	3	..		.	.	34 0	..	...	..		.	1	..	...	...	1	1	...	...	......	......	88·9	......	......	......	36·3	75·1	......	......
Dacca	Dacca		24	8	...	.	..	31 0	10 6	..		6	4	...	...	4	3	5	4	2	4	165·2	28 2	......	......	28 5	10·2	22·3	24·8	22·0	37·3
	Narainganj	.	5	5	. .	.	..	41 1	42 2			4	..	...	..	. .	2	2	..	1	1	745 5	......	......	... ..	......	59·0	48·6	......	66·4	79·8
Chittagong	Chittagong	..	...	7	...	...	...	..	23 8	..	.		1	2	...	1	1	...	1	1	...	.....	26·4	41 6	......	21·5	11 2	... .	23·0	47·9	......
Tipperah	Comillah	...	3	4	.	.	...	26 2	28 1	. .	. .	1		1	. .		1	1	1	...	2	175·1	... ..	31·9	.....	... .	18·3	26 1	39·6	.....	153·4
Patna	Patna City		32	3	...	.	.	14 0	3 8	.	..	9	7	2	...	2	1	4	6	..	4	108·6	24·9	6·2	... ..	9·3	1 8	8·9	16·8	......	15 1
Gya	Gya	...	62	9	..	.	..	53·7	20 1	..	..	14	14	1	3		4	8	9	7	11	406 7	114·6	7·4	23·2	......	14·1	32 7	47·9	55·4	111·1
Shahabad	Arrah	...	5	3	...	...	..	5 4	12 6	...	...		1	...	1	1	2	...	2	...	1	......	11·7	... .	11·8	16 3	13·2	......	22·2	......	18·0
Mozufferpore	Mozufferpore	..	5	5	...	. .	.	8 7	20 8	..	...	2	2	..	...	1	...	2	...	3	...	108·9	25·7	......	.. ...	17·2	......	14·9	... ..	48 0	......
Durbhanga	Durbhanga	...	17	9	...	...	..	18 3	26 6	...	...	6	6	2	...	1	3	3	..	3	2	200·4	41·0	13 3	..... .	12·9	11·7	14·0	......	35·6	32·6
Saran	Chupra	...	8	1	...	..	...	10 1	4·3	...	...	1	...	...	1	1	3	1	...	. .	2	36·0	...	.. ..	10·1	14·6	16·4	6·4	......	......	29·9
Bhagulpore	Bhagulpore	...	10	5	...	...	...	13 1	15 1	...	...	5	1	.	..	1	3	...	1	. .	4	217·8	9·6	... ..	......	12 4	14·3	... .	8 1	... ..	57·7
Monghyr	Monghyr	...	16	6	...	...	...	18 6	24·8	...	...	5	1	2	1	...	4	3	..	. .	6	175·1	8·4	14 7	9·1	......	20·1	17·5	... ..	......	87·0
Purneah	Purneah	..	24	14	...	...	...	136·0	128 6	..	...	1	2	7	7	4	10	2	2	2	1	183·7	86·1	230·4	304 6	209·3	158·3	36·5	56·1	111·0	64·4
Puri	Puri	..	34	..	...	...	...	72·1	. .	...	...	4	...	1	3	4	8	3	3	3	5	656·5	... ..	23 2	83·2	111·9	78 7	38·5	46·9	69·9	144·0
	TOTAL ...	3	441	179	...	...	13·0	25 1	23·7	.	...	103	71	30	31	41	86	75	55	50	81	177 6	33 7	11 9	14 0	21·4	16 5	17 1	17 8	27 3	52·3

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 8th April 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of February 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
499	1. Grain ...	3,474	420	3,894	1,47,365	3,894	1,47,365	
......	2. Cotton ...	......	......	......	......	......	......	
5	3. Oilseeds ...	22	......	22	1,635	22	1,635	
8	4. Salt ...	......	64	64	5,150	64	5,150	
7	5. Piece-goods ...	......	12	12	12,600	12	12,600	
2	6. Metal ...	10	......	10	1,520	......	.20	
11	7. Building materials	50	86	136	329	43	181	
915	8. Miscellaneous ...	130	308	438	50,676	437	50,541	
42	9. Fuel ...	80	270	350	3,627	350	3,627	
1 raft	10. Timber ...	37 c. ft.	......	37 c. ft.	111	37 c. ft.	111	
26 rafts	11. Bamboos ...	500 "	1,800	2,300 "	165	2,300 "	165	
1,489 & 27 rafts.	12. Total ...	3,766 & 537 c. ft.	1,160 & 1,800 c.f.	4,926 & 2,337 c. ft.	2,23,178	4,822 & 2,337 c ft	2,21,395	
1,399 & 25 rafts.	13. Total of same month last year	4,064 & 1,741 c. ft.	1,717 & 2,902 c. ft.	5,781 & 4,643 c. ft.	2,70,636	5,781 & 4,643 c.ft	2,70,636	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	700	789	1,489
15. Total number of boats plying passenger No.	58	59	117
16. Total registered tonnage, cargo Tons	7,366	4,944	12,810
17. Total registered tonnage, passenger Tons	724	736	1,460
18. Ton-mileage ...	2,27,398	1,68,249	3,95,647
19. Estimated value of cargo Rs.	1,40,702	82,200	2,22,902
20. Number of passengers No.	1,728	1,953	3,681
21. Rafts, bamboos C. ft.	500	1,800	2,300
22. Do., bullahs "	37	......	37
23. Estimated value of rafts Rs.	136	140	276
24. Tollage on boats "	4,348-12-0	2,579-0-6	6,927-12-6
25. Compounded tollage on boats Rs.	1-9-0	......	1-9-0
26. Tollage on rafts "	7-4-0	9-13-9	17-1-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-11-8

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	6,946	7	3
Total tollage of same month last year ...	6,212	15	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	5,277	11	3
2. Tollage per month ...	6,946	7	3
3. Total ...	10,224	2	6
4. Amount paid into Treasury during the month ...	7,982	15	6
5. Balance due at the end of the month ...	4,241	3	0

Abstract for the month of February 1889 *as compared with the corresponding month of the previous year.*

	1888-89. During the month.	1888-89. To end of the month.	1887-88. During the month.	1887-88. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	6,946 7 3	60,106 5 3	6,212 15 0	48,090 2 0

CALCUTTA,
The 9*th April* 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

General remarks on the fluctuation of principal staples carried over the East Indian Railway during four weeks ended 23rd February 1889.

INCREASES.

Coal and coke.—There was an increase in both the upwards and downwards traffic, the former was due to requirements by Foreign railways, and the latter to demand in Calcutta for shipment to out-ports and for local consumption.

Cotton.—The increase was principally in despatches from stations above Cawnpore to Howrah and Bombay.

Government stores.—This was chiefly in despatches from Howrah, Chunar and *viâ* Ghaziabad.

Lac.—Due to considerable despatches of lac-stick principally from *viâ* Ghaziabad and *viâ* Jubbulpore to Mirzapore.

Wheat.—The increase was chiefly in traffic from *viâ* Digha Ghât and Moghalsarai to Howrah for shipment.

Stone.—This is in continuation of the increase reported for the last few months.

DECREASES.

Ghee.—There was an increase in weight carried, attended with a decrease in freight earned, due principally to diversion to the Indian Midland Railway route of despatches from Manhor to Bombay, and to a falling off in despatches from other stations on D district to Calcutta.

Piece-goods, European.—The decrease under this head was due to despatches from Howrah and *viâ* Jubbulpore owing to large trade centres in the North-Western Provinces having been overstocked by heavy despatches in December last.

Fruits, other kinds.—Due to poor traffic in betel-nuts.

Rice (husked and unhusked).—The decrease was chiefly in despatches from loop line stations, and was due to absence of demand both in Calcutta and up-country stations.

Gram and pulses.—

Other rain and spring crops.—The decreases under these heads were due to same cause as reported last month, viz., the demand at stations up-country owing to scarcity in 1888, did not exist in 1889.

Hides.—The decrease was principally in despatches from Cawnpore and Delhi, and was apparently due to up-country dealers holding out for better prices.

Oil.—This was almost entirely in despatches of kerosine oil from Howrah, and was due to heavy despatches during the corresponding month of last year.

Opium.—Due to Government arrangements for despatch.

Railway material, Foreign.—This decrease was chiefly in despatches from Calcutta, due to the completion of the Indian Midland Railway.

Salt.—Chiefly in despatches from Howrah owing to heavy speculation in 1888, consequent on the anticipated introduction of an additional import duty.

Seeds.—The decrease was chiefly in linseed and mustard seed; the former decrease was due to exceptional traffic in February 1888 and the absence of demand this year, and the latter was due to the Calcutta market being dull throughout the month.

Spices.—The falling off was principally in despatches of chillies from Mokameh and Mokameh Ghât

Sugar and Jaggree.—Partly due to diversion of traffic to the Indian Midland Railway from Cawnpore and at other stations to absence of demand.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, JAMALPUR, *the 5th April* 1889.

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of February 1889, as compared with the same month of the previous year.

Staples	1888 Up.	1888 Down.	1889 Up.	1889 Down	Total 1888.	Total 1889.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	291	......	645	......	291	645	354	......
Cotton, raw	5	....	7	......	5	7	2	......
Cotton piece-goods—								
1.—European	56	......	59	1	56	60	4	......
Dyes and tans—								
1.—Indigo	....	4	......	......	4	...	......	4
Jute—								
2.—Gunny bags and cloths	27	4	10	2	31	12	......	19
Grains—								
2.—Rice	15	1,478	9	538	1,493	547	......	946
4.—Gram	..	6	...	..	6	..	......	6
5.—Others	3	21	64	17	24	81	57	......
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	......	4	..	5	4	5		......
b.—Undressed	...	......	...	1	......	1	1	......
Lac—								
1.—Stick	......	......	1	1	.....	2	2	......
Leather, manufactured	8	1	5	.....	9	5	......	4
Liquors—								
1.—Beer	1	....	2	.....	1	2	1	......
2.—Wines	1	......	......	..	1	......	......	1
Metals—								
2.—Iron	1	....	5	1	1	6	5	......
4.—Others	4	4	8	2	8	10	2	......
Oils—								
2.—Kerosine	4	.....	2	......	4	2	......	2
3.—Others	7	..	4	......	7	4	......	3
Provisions—								
1.—Ghee	3	......	3	.....	3	3	....	......
2.—Dried fruits and nuts	3	...	2	......	3	2	.....	1
3.—Others	32	......	38	......	32	38	6	......
Railway plant and rolling-stock	41	....	154	....	41	154	113	......
Salt	25	..	24	.....	25	24	......	1
Oilseeds—								
1.—Linseed	...	22	......	4	22	4	......	18
2.—Mustard and rape	285	.	76	......	285	76	.....	209
6.—Others	92	....	.....	3	92	3	......	89
Silk, raw—								
2.—Indian	27	27	33	25	54	58	4	......
Silk piece-goods—								
2.—Indian	....	5	5	...	5	5	......	......
Spices—								
2.—Others	...	.....	1	.....	.....	1	1	......
Stone and lime	12	2	3	.....	14	3	....	11
Sugar—								
1.—Drained	16	......	28	......	16	28	12	....
2.—Undrained	13	...	28	......	13	28	15	....
Tobacco	2	1	......	3	3	3	.....	.....
Paper and pasteboard	....	..	3	......	......	3	3	.....
Umbrellas	1	....	.....	....	1	......	.....	1
All other articles of merchandise	89	14	117	11	103	128	25	...
Total	1,064	1,593	1,336	614	2,657	1,950	608	1,315

INCREASE.

	Tons.
Coal	354
This increase is due to greater import of brick-burning coal.	
Grains—	
(5) Others	57
This increase is due to greater import of indigo seeds.	
Railway plant and rolling-stock	113
This increase is due to more materials carried during the month.	
Sugar—	
(1) Drained	12
The increase under this head is due to high market rate.	
(2) Undrained	15
The increase under this head is due to high market rate.	

DECREASE.

	Tons.
Jute—	
(2) Gunny bags and cloths	19
This decrease is due to less export of grains from intermediate stations this year.	
Grains—	
(2) Rice	946
The decrease under this head is due to less export from intermediate stations, as the cultivators are waiting for a better rate.	
Oilseeds—	
(1) Linseed	18
This decrease is due to less export owing to high rate.	
(2) Mustard and rape	209
This decrease is due to dull market.	
(6) Others	89
This decrease is due to dull market.	
Stone and lime	11
This was imported last year for building purposes, but there is no demand this year, hence the decrease.	

The 4th April 1889.

G. BOUGHEY, MAJOR, R.E.,
Offg. Manager, Nalhati State Railway.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 6th April 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 6th April 1889.			Week ending Saturday, the 7th April 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	388	1,16,180	2,017	427	1,53,945	2,633
Jute	11	8,525	152	23	13,026	200
Firewood	139	65,326	977	121	58 587	797
Other articles	937	2,35,085	3,631	814	1,76,000	2,706
Total ...	1,475	4,25,115	6,777	1,415	4,01,557	6.336

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 23rd February 1889, as compared with the same period of 1888

Staples.		1889.		1888.		Increase.		Decrease.	
		Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
		Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	Horses, ponies, and mules ...	No. 174	3,090	No. 560	9,239	..	......	No. 386	6,149
	Cattle	" 170	1,245	" 49	1,053	No. 130	192	....	..
	Sheep and goats	" 3,406	2,706	" 2,524	1,950	" 882	756	......	......
	Other kinds	"	...	"	..		......	......	....
Borax		3,600	3,147	6,226	4,756	...	......	2,566	1,609
Canes and rattans		..	... ..	...	... ..	......	..	..	.
Caoutchouc (Indian-rubber)		......	... ..	...	... ..	......	..	..	...
Chinese and Japanese ware		28	35	36	41	......	.	8	6
Coal and coke, up		9,06,396	3,16,448	7,44,546	2,32,808	1,61,850	83,640	......	.
Ditto, down		35,35,637	4,78,859	24,90,097	3,41,949	10,45,540	1,35,910	......	...
Cotton, raw		1,78,550	1,27,954	1,74,528	1,14,246	4,022	13,708	...	...
COTTON, MANUFACTURED.	Twist and yarn (European) ...	9,836	12,383	9,606	12,268	230	115	....	...
	Ditto (Indian) ..	12,742	7,709	10,014	5,946	2,728	1,763	[illegible]	
	Piece-goods (European) .	1,28,431	1,42,968	1,57,600	1,76,497	......	......	29,169	33,529
	Ditto (Indian) ..	22,445	10,995	21,537	17,076	908	.....	......	81
DRUGS AND MEDICINES.	Asafœtida	581	388	495	205	85	183	...	......
	Other sorts, not intoxicating	1,259	1,603	1,502	1,823	... ..	......	243	220
	Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	1,506	1,202	1,408	1,518	98	......	....	316
DYEING MATERIALS.	Indigo	2,183	967	2,386	919	.....	48	203	.
	Madder or manjit	90	17	......	... .	90	17	... ..	..
	Safflower	119	41	172	81	.....	......	53	40
	Turmeric	10,327	6,219	9,785	6,368	542	.....	...	149
	Other kinds	10,644	3,631	12,526	4,926	..	.	1,882	1,295
Earthenware and porcelain		779	1,408	818	1,465	...	...	39	62
FIBROUS PRODUCTS.	Jute, raw	18,563	4,252	17,688	4,052	875	200	... ..	.
	Do., manufactured (gunny bags and cloths).	57,568	28,784	58,081	120,205	......	2,579	513	...
	Other fibres, raw ..	25,188	9,456	19,453	9,760	5,735	. ...	.	304
	Ditto, manufactured ..	3,244	1,817	3,107	1,746	137	71		...
FRUITS & NUTS	Coconnuts	8,461	2,535	4,741	3,538	......	......	1,280	1,003
	All other kinds	40,151	24,689	57,238	32,119	..	.....	17,087	7,430
GRAIN & PULSES	Wheat	1,65,291	45,857	1,50,151	38,037	15,140	7,820		.
	Gram and pulses...	1,89,817	33,172	2,98,597	81,132	......	..	1,08,780	47,960
	Rice, husked	8,37,216	1,83,198	9,71,566	2,78,888	.	....	1,34,350	95,690
	Do., unhusked	60,424	4,492	10,044	1,042	50,380	3,450	.	.
	Other rain and spring crops ...	1,43,287	33,083	3,50,237	70,883	.	...	2,06,950	37,800
Government stores...		25,618	32,770	16,330	21,706	9,288	11,064	..	...
Gums and resins		4,403	2,930	4,630	3,040	... ..	... ..	227	110
HIDES & SKINS...	Hides of cattle	75,854	53,950	83,774	60,667	..	....	7,920	6,717
	Skins of sheep, goats, and small animals.	14,107	5,389	16,223	8,454	... ..	.	2,116	3,065
Horns		1,430	985	1,477	726	... ..	259	47	..
LAC ...	Lac, dye	..	..	...	...	...	......	......	
	Do., shell	10,036	14,606	18,043	14,164	993	442	... ..	.
	Do., stick and other kinds ..	35,162	12,052	28,094	7,892	7,068	4,160	....	..
LEATHER ...	Leather, unmanufactured ...	1,619	3,185	2,035	4,030	..	... ..	417	845
	Ditto, manufactured .	2,745	4,000	3,499	5,396	.....	..	754	1,396
Liquors		14,456	13,244	10,431	12,730	.	494	1,975	..
Mats		379	230	616	297	.. .	...	237	67
Minerals		1,94,868	27,068	1,54,139	24,382	40,729	2,686	. ..	.
METALS AND MANUFACTURES OF	Brass and copper	19,459	11,959	19,475	11,019	.	940	16	...
	Iron	90,964	51,903	84,981	53,307	5,983	.. ..	... ..	1,344
	Other metals	6,252	3,822	8,233	6,162	.. . .	... ..	1,981	2,340
Oils		44,832	21,040	67,907	38,240	.... .	......	23,075	17,200
Opium		71	1,338	30,526	30,416	......	..	29,550	29,078
Paints and colours.		921	1,969	3,079	2,698	.... .	.	2,828	729
PROVISIONS ..	Ghee	31,522	18,619	30,538	27,444	984	.....	.	8,825
	Other kinds	8,910	7,176	7,516	6,983	1,394	190	.	.. .
Railway materials, Construction Account		1,12,370	3,499	1,25,419	3,321	.....	78	13,049	
Ditto ditto, Foreign		80,358	32,651	3,01,850	1,76,868	...	..	2,21,492	1,44,217
Salt		4,02,929	79,479	4,81,675	1,00,637	..	..	98,746	21,158
SALTPETRE, &C.	Saltpetre	76,771	34,545	67,262	30,780	9,509	3,765		.
	Other saline substances ..	12,698	3,924	21,492	6,877	.. ..	..	8,794	2,950
SEEDS — OIL-SEEDS.	Linseed	56,012	19,988	2,49,082	87,188		....	1,93,070	67,203
	Mustard and rape	2,20,968	51,488	2,38,268	63,458	...	...	17,300	11,970
	Til or gingelly	21,814	3,303	31,014	8,623	...	..	9,200	5,320
	Other oilseeds	53,292	18,390	30,202	9,380	23,090	9,010	.....	...
SEEDS — OTHER SEEDS	Indigo seed	1,89,755	46,050	1,83,255	43,580	6,500	5,470	.	
	Tea seeds	.	.. ..	..	...			... ..	.. ..
	Other kinds	26,982	10,814	23,012	6,694	3,970	3,620	.	..
SILK ..	Silk, raw	2,427	1,638	2,436	1,489	...	149	9	......
	Do., manufactured (European)	......	......	...	......	......	......	... .	......
	Do., ditto (Indian)...	1,192	770	1,157	728	35	42	. .	... ..
Spices		16,361	11,354	33,080	23,445	.	.....	16,719	12,091
Stone and marble		1,85,147	26,203	1,10,080	14,460	75,067	11,743	..	....
SUGAR ..	Sugar, refined	1,77,717	30,409	2,11,607	38,211	... ..	.	33,890	7,802
	Do., unrefined	3,32,666	47,258	5,27,200	81,820	... ..	......	1,94,534	34,562
TEA ...	Tea, Indian	1,103	1,420	1,448	1,520	..	......	345	91
	Do., Foreign	600	34	801	30	..	4	201	. .
Tobacco		19,180	8,076	19,261	7,081	.. ..	995	81	.. ...
WOOD ...	Timber	60,779	12,175	46,327	9,368	14,452	2,807	.....	.. ..
	Firewood	24,180	1,683	51,549	3,672	......	... .	27,369	1,989
WOOL ...	Wool, raw	751	657	1,013	1,285	..	.....	262	628
	Do., manufactured (European)	......	......	... .	......	.....	...	... .	... ..
	Wool manufactured (Indian)	1,062	914	1,135	991	.. .	....	73	77
	Shawls	..	...	. .	...	.. .	.	. .	. .
All other articles of merchandise		2,27,431	1,33,443	2,51,765	1,51,822	. .	... ..	24,334	18,379
Bones		25,664	7,476	37,867	11,061	..	.	12,203	3,585
Potatoes		48,585	8,180	47,275	8,431	1,310	. .	...	251
Total ..		92,91,054	23,83,879	92,28,264	27,13,141	14,88,732	3,08,370	14,25,942	6,37,632

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*262,335	*3,07,185 13 0	29,35,286 20	6,54,131 3 0	17,100 8 0	9,78,417 8 0	66,802	95,224½	162,026½
Or per mile of railway ...	...	202 14 11	......	432 2 0	11 4 9	646 5 8	......	... ..	.. ..
For previous 12 weeks of half-year	3,007,470	35,48,062 5 0	3,30,73,041 30	71,58,560 10 4	1,88,720 1 8	1,08,95,343 1 0	783,118½	1,148,501½	1,931,682½
Total for 13 weeks ..	3,269,805	38,55,248 2 0	3,60,08,328 10	78,12,691 13 4	2,05,820 9 8	1,18,73,760 9 0	849,920½	1,243,789	2,093,709½
Comparison.									
Total for corresponding week of previous year	241,727	2,85,354 15 1	29,73,061 0	5,74,504 6 3	18,755 15 0	8,78,615 4 4	74,727	96,632	171,359
Per mile of railway corresponding week of previous year ..	.. ...	188 8 2	......	379 8 4	12 6 3	580 6 9	.. ..	......	......
Total to corresponding date of previous year	3,489,449½	41,12,122 15 7	3,67,56,617 0	85,62,500 6 10	2,99,033 2 8	1,29,73,656 9 1	869,830	1,362,203	2,232,033

* The increase in coaching traffic is due to the "Barunee" bathing festival and to Gya pilgrims.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st March 1888			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1889	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs	Rs.	Rs
1,513¾	8,78,615	580	1,513¾	9,78,418	646	1,513¾	4,63,32,422	589	1,513¾	4,44,80,410	565	......	18,52,012

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts			Coaching	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs A P			
Total traffic for the week ...	18,872	10,467 6 0	67,598 10	4,233 15 0	43 0 0	14,744 5 0	2,359	436	2,795
Or per mile of railway .	330	182 15 10	1,182 0	74 0 4	0 12 0	257 12 3	..	.. .	....
For previous 12 weeks of half-year	149,437	84,438 6 0	3,49,593 30	21,701 15 0	427 3 10	1,06,567 8 10	22,258½	6,710	28,968½
Total for 13 weeks ...	168,309	94,905 12 0	4,17,192 0	25,935 14 0	470 3 10	1,21,311 13 10	24,617½	7,146	31,763½
Comparison.									
Total for corresponding week of previous year .	11,950½	5,514 10 0	43,986 0	2,858 6 0	23 15 3	8,396 15 3	1,678	716	2,394
Per mile of railway corresponding week of previous year ..	209	96 6 7	769 0	49 15 7	0 6 8	146 12 10	.	.	......
Total to corresponding date of previous year	198,514	1,09,385 11 7	4,49,604 30	29,030 4 0	619 4 0	1,39,035 3 7	23,943	7,521	31,464

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	8,397	147	57½	14,744	258	57½	5,19,181	175	57½	4,89,430	165	...	29,751

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,279	553 5 0	23,499 30	780 3 0	7 0 0	1,349 8 0	369½	124	493½
Or per mile of railway	... .	46 1 9	......	65 12 3	0 9 4	112 7 4	......	......	......
For previous 12 weeks of half-year	30,646	5,156 10 0	2,09,551 0	4,623 11 0	139 15 8	9,920 4 8	4,131½	1,649½	5,781
Total for 13 weeks ..	33,925	5,709 15 0	2,33,050 30	5,412 14 0	146 15 8	11,269 12 8	4,501½	1,773½	6,274½
Comparison.									
Total for corresponding week of previous year	2,591½	458 13 1	18,163 20	371 3 0	10 6 0	840 6 1	323	170	493
Per mile of railway corresponding week of previous year	....	38 3 9	... ..	30 14 11	0 13 10	70 0 6	[illegible]	......	......
Total to corresponding date of previous year	38,419	6,467 0 0	2,83,729 30	5,802 13 0	143 11 9	12,474 1 9	4,364	2,045	6,409

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	840	70	12	1,350	112	12	47,994	77	12	45,043	72	. ...	2,951

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P.			
Total traffic for the week ..	22 122	5,587 9 0	9,488 0	358 4 0	6 11 0	5,952 8 0	898	70	968
Or per mile of railway	..	251 2 0	......	16 1 7	0 4 10	267 8 5	......	......	......
For previous 12 weeks of half-year	249,856	64,009 6 0	1,17,505 0	4,189 8 0	81 14 10	68,280 12 10	10,856	747	11,603
Total for 13 weeks ...	271,978	69,596 15 0	1,26,993 0	4,547 12 0	88 9 10	74,233 4 10	11,754	817	12,571
Comparison									
Total for corresponding week of previous year	19,927	5,225 8 11	9,759 20	358 7 0	2 0 0	5,585 15 11	908	60	968
Per mile of railway corresponding week of previous year	.	254 13 9		16 1 8	0 1 6	251 0 11	......	......	......
Total to corresponding date of previous year	2"6,332	71,644 9 11	1,13,898 30	4,111 11 0	96 15 0	75,853 4 5	11,619	1,097	12,716

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,586	251	22½	5,953	268	22½	2,69,082	233	22½	2,78,090	240	9,008	......

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 23rd March 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	140,165	a72,510 0 0	4,88,930 0	70,120 0 0	12,300 0 0	1,54,930 0 0	22,214	23,069	45,283
Or per mile of railway ..	222	108 0 0	726 0	104 0 0	†2 0 0	214 0 0	... ..	......	. .
For previous 11 weeks of half-year	1,612,281	8,34,819 0 0	54,82,880 0	9,98,312 0 0	1,83,214 0 0	*20,16,345 0 0	232,621	274,759	507,380
Total for 12 weeks .	1,761,446	9,07,329 0 0	59,72,810 0	10,68,432 0 0	1,95,514 0 0	21,71,275 0 0	254,835	297,828	552,663
COMPARISON.									
Total for corresponding week of previous year .	120,415	62,070 0 0	4,68,032 0	67,907 0 0	14,546 0 0	1,44,523 0 0	21,391	23,404	44,795
Per mile of railway corresponding period of previous year ..	187	96 0 0	726 0	105 0 0	†7 0 0	208 0 0	... ..	... ..	.. .
Total to corresponding date of previous year	1,719,947	9,49,898 0 0	64,14,965 0	9,70,062 0 0	1,93,596 0 0	21,13,580 0 0	267,339	300,344	567,683

* Audited up to week ending 9th February 1889.
† Excluding steamer earnings.
a Due to Kanchrapara méla.

FINANCIAL YEAR

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,44,523	224	673	1,54,930	230	645	94,63,262	288	673	*1,04,01,500	303	9,38,238	.....

* Audited up to week ending 9th February 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs A. P.	Rs. A. P.			
Total traffic for the week ...	29,020	a10,770 0 0	65,840 0	4,050 0 0	100 0 0	14,920 0 0	3,597	2,093	5,690
Or per mile of railway . .	232	. 86 0 0	527 0	32 0 0	1 0 0	119 0 0	.	......	. . .
For previous 11 weeks of half-year	294,300	1,07,552 0 0	5,85,198 0	31,058 0 0	4,147 0 0	*1,42,757 0 0	38,627	21,232	59,859
Total for 12 weeks ...	323,110	1,18,322 0 0	6,51,038 0	35,108 0 0	4,247 0 0	1,57,677 0 0	42,224	23,325	65,549
COMPARISON									
Total for corresponding week of previous year	24,784	8,301 0 0	66,902 0	4,052 0 0	47 0 0	12,400 0 0	3,419	2,203	5,622
Per mile of railway corresponding period of previous year ..	198	66 0 0	535 0	33 0 0	..	99 0 0	......	......	.....
Total to corresponding date of previous year	317,729	1,11,855 0 0	6,32,953 0	30,524 0 0	3,229 0 0	1,54,608 0 0	40,192	23,629	63,821

* Audited up to week ending 9th February 1889.
a Due to Kanchrapara méla.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,400	99	125	14,920	119	125	6,60,192	103	125	*7,03,823	110	43,631	......

* Audited up to week ending 9th February 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,560	4,720 0 0	16,890 . 0	1,300 0 0	90 0 0	6,110 0 0	2,402	702	3,104
Or per mile of railway .. .	169	55 0 0	196 0	15 0 0	1 0 0	71 0 0	... ..	.....	..
For previous 11 weeks of half-year	159,400	52,908 0 0	1,41,950 0	11,568 0 0	3,638 0 0	*68,114 0 0	26,040	7,250	33,290
Total for 12 weeks ..	173,960	57,628 0 0	1,58,840 0	12,868 0 0	3,728 0 0	74,224 0 0	28,442	7,952	36,394
Comparison.									
Total for corresponding week of previous year .	13,495	4,403 0 0	12,2 1 0	768 0 0	361 0 0	5,532 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year	157	5[illegible] 0 0	142 0	9 0 0	4 0 0	64 0 0	. ....	......	.. ...
Total to corresponding date of previous year	167,088	52,567 0 0	1,56,[illegible]60 0	11,875 0 0	2,325 0 0	60,767 0 0	29,820	7,428	37,248

* Audited up to week ending 9th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,532	64	86	6,110	71	86	2,92,705	67	86	*2,97,552	68	4,847	... .

* Audited up to week ending 9th February 1889.

ASSAM-BEHAR STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd March 1889, *on* 38 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,210	760 0 0	28,350 0	2,090 0 0	30 0 0	2,880 0 0	532	532	1,064
Or per mile of railway ..	58	20 0 0	746 0	55 0 0	1 0 0	76 0 0		. ...	
For previous 11 weeks of half-year	31,790	12,703 0 0	2,86,470 0	18,583 0 0	1,732 0 0	*33,018 0 0	5,724	5,724	11,448
Total for 12 weeks ...	34,000	13 463 0 0	3,14 820 0	20,673 0 0	1,762 0 0	35,898 0 0	6,256	6,256	12,512
Comparison.									
Total for corresponding week of previous year .	2,944	950 0 0	30,126 0	2,587 0 0	40 0 0	3,577 0 0	546	546	1,092
Per mile of railway corresponding period of previous year .	75	25 0 0	772 0	66 0 0	1 0 0	92 0 0	......	... .	....
Total to corresponding date of previous year	37,617	13,052 0 0	3,13,579 0	23,036 0 0	597 0 0	36,685 0 0	6,552	6,552	13,104

* Audited up to week ending 9th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 24th March 1888.			Receipts for week ending 23rd March 1889.			Total receipts from 1st April 1887 to 24th March 1888.			Total receipts from 1st April 1888 to 23rd March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,577	92	38	2,880	76	39	1,23,726	62	38	*1,68,904	87	45,178	......

* Audited up to week ending 9th February 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 30th March 1889, on 27¼ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	3,759	1,283 0 0	9,051 0	624 0 0	12 0 0	1,919 0 0	509	254	763
Or per mile of railway	138	47 0 0	332 0	23 0 0	... ..	70 0 0	......	... .	......
For previous 11 weeks of half-year	40,815	15,123 0 0	1,60,553 0	9,201 0 0	194 0 0	24,518 0 0	5,963	6,160	12,123
Total for 12 weeks ...	44,574	16,406 0 0	1,69,604 0	9,825 0 0	206 0 0	26,437 0 0	6,472	6,414	12,886
Comparison.									
Total for corresponding week of previous year on 259 miles open	3,020	1,084 0 0	10,831 0	720 0 0	—77 0 0	1,727 0 0	509	472	981
Per mile of railway corresponding week of previous year ...	111	40 0 0	397 0	26 0 0	—3 0 0	63 0 0	......	......	... .
Total to corresponding date of previous year	43,632	15,963 0 0	2,38,847 0	12,774 0 0	200 0 0	29,027 0 0	6,617	6,885	13,502

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,727	63	27¼	1,919	70	27¼	95,120	68	27¼	1,01,678	73	6,558	... ..

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 30th March 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	50,083	18,852 0 0	1,40,205 0	13,119 0 0	3,434 0 0	35,405 0 0	4,978	4,756	9,734
Or per mile of railway	183	69 0 0	514 0	48 0 0	3 0 0	120 0 0*	.....	......	...
For previous 11 weeks of half-year	185,108	1,83,925 0 0	15,89,026 0	1,48,524 0 0	37,279 0 0	3,69,728 0 0	65,103	66,908	132,011
Total for 12 weeks ...	535,191	2,02,777 0 0	17,29,231 0	1,61,643 0 0	40,713 0 0	4,05,133 0 0	70,081	71,664	141,745
Comparison.									
Total for corresponding week of previous year on 259 miles open ..	42,019	14,386 0 0	1,60,791 0	17,454 0 0	1,982 0 0	33,822 0 0	3,508	9,485	12,793
Per mile of railway corresponding week of previous year .	162	56 0 0	621 0	67 0 0	1 0 0	121 0 0*	... ..	.. ...	...
Total to corresponding date of previous year	551,027	2,22,549 0 0	26,69,125 0	2,96,770 0 0	38,462 0 0	5,57,781 0 0	82,268	111,425	193,693

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	33,822	131	273	35,405	130	252·57	18,29,003	142	265·96	16,54,636	122	....	1,74,367

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 23rd March 1889	7,770
Corresponding week last year	11,407
Decrease	3,637
Receipts from 1st January to 23rd March 1889	91,811
From 1st January to 24th March 1888	98,656
Decrease	6,845

	Miles.
Miles open week ending 23rd March 1889...	51
Corresponding week last year	51

	Rs. A. P.
Receipts per mile open week ending 23rd March 1889...	152 5 8
Corresponding week last year	223 10 8
Decrease	71 5 0

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 10th April 1889.

REGISTERED No. 29.

No. 16 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, APRIL 17, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 *and* 25 *Vict., cap.* 67.

THE Council met at the Council Chamber on Saturday, the 6th April, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*
The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General of Bengal.*
The HON'BLE C. P. L. MACAULAY.
The HON'BLE P. NOLAN.
The HON'BLE T. T. ALLEN.
The HON'BLE SIR HENRY HARRISON, KT.
The HON'BLE SIR ALFRED CROFT, K.C.I.E.
The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.
The HON'BLE C. H. MOORE.
The HON'BLE H. PRATT.
The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.
The HON'BLE DR. RASH BEHARI GHOSE.

NEW MEMBER.

The Hon'ble MR. NOLAN took his seat in Council.

PRIVATE FISHERIES BILL.

The Hon'ble SIR CHARLES PAUL introduced the Bill "for the protection of the right of fishing in private waters" and moved that it be read in Council. He said:—

"After obtaining leave at the last meeting of the Council to introduce this Bill, it is unnecessary that I should enlarge on the subject, or repeat the reasons which exist for the introduction of the measure. Under the existing law private rights in fisheries are not sufficiently or effectually protected. By the law as it is, any infringement of these private rights is not punishable. Those rights are very valuable; large sums of money are paid for, and great profits arise out of, the exercise of these rights. It is therefore necessary to protect those valuable rights, and it was for that purpose that this Bill has been introduced. The Bill, following the lines of English legislation on the same subject, is directed to three principal points: namely, first, to the offence of fishing in private fisheries; second, to the offence of erecting places and constructing appliances for the purpose of catching fish, without the permission of the owner, in private fisheries; and, thirdly, to make trespass upon these lands for the purpose of committing these depredations a criminal offence. The fifth section of this Bill provides that offences committed under this Act shall be considered cognizable offences, so that the police may arrest offenders then and there. I think this Bill will be found sufficient for the purposes which I originally explained, and under these circumstances I move that it be read in Council."

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble SIR CHARLES PAUL also moved that the Bill be referred to a Select Committee consisting of the Hon'ble Mr. Nolan, the Hon'ble Mr. Allen, the Hon'ble Rajah Rameshwar Sing, the Hon'ble Dr. Rash Behari Ghose, and the Mover.

The Motion was put and agreed to.

POLICE SUPERANNUATION FUNDS BILL.

The Hon'ble SIR HENRY HARRISON introduced the Bill "to consolidate the Calcutta and the Suburban Police Superannuation Funds" and moved that it be read in Council. He said:—

"It is unnecessary, as leave was granted at the last meeting of the Council to introduce the Bill, to say more than that there is a point pending whether any guarantee is necessary for the solvency of the funds, but I understand that upon that question the Local Government is still in correspondence with the Supreme Government, so that there is no necessity to say anything more now."

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble SIR HENRY HARRISON also moved that the Bill be referred to a Select Committee consisting of the Hon'ble Mr. Allen, the Hon'ble Dr. Rash Behari Ghose, and the Mover.

The Motion was put and agreed to.

CALCUTTA PORT BILL.

The Hon'ble SIR HENRY HARRISON introduced the Bill "to consolidate and amend the law relating to the Port of Calcutta and to the appointment of Commissioners for the said Port" and moved that it be read in Council.

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble SIR HENRY HARRISON also moved that the Bill be referred to a Select Committee consisting of the Hon'ble Mr. Macaulay, the Hon'ble Mr. Allen, the Hon'ble Mr. Moore, the Hon'ble Mr. Pratt, and the Mover.

The Motion was put and agreed to.

EMIGRANTS' SANITATION BILL.

The Hon'ble MR. NOLAN introduced the Bill "to provide for the sanitation of emigrants during their passage through Bengal to the labour districts in Assam" and moved that it be read in Council.

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble MR. NOLAN also moved that the Bill be referred to a Select Committee consisting of the Hon'ble Mr. Allen, the Hon'ble Mr. Moore, the Hon'ble Dr. Mahendra Lal Sircar, the Hon'ble Dr. Rash Behari Ghose, and the Mover, with permission to report thereon within a fortnight. He said :—

"In explanation of the somewhat unusual provision giving the Select Committee power to report within a fortnight, I desire to state that there is no wish to bind the members to do their work more quickly than they may themselves find convenient; but it seems advisable to give them power to report, if they think fit, before the usual period of one month has expired. There is every reason for expediting the consideration of the measure, so far as can be done without precipitancy; for cholera, which, as His Honour the President informed you when asking leave to introduce this Bill, carried off six hundred emigrants last year, has recently, I much regret to state, broken out again. And it is hoped that no protracted period will be required for the examination of a Bill which merely embodies the simple principle that emigration should be subject to sanitary supervision, and that such supervision should be exercised in accordance with rules to be made by Government, and altered from time to time, so that they may always be in accordance with the varying necessities of the hour. This policy has been accepted without question for a quarter of a century: it was applied by this Council in the Acts of 1865 and 1870 to the special case with which we are now dealing, that of emigration to Assam, and by the Governor-General in Council in three well-known enactments to emigration to the Colonies, Burma and the Straits Settlements. That it was not consciously abandoned by the framers of the present law, Act I of 1882, may be inferred with the utmost certainty from the elaborate provisions made in that enactment, and in the rules framed under it, for the sanitary supervision of the only class of emigrants whom it dealt with; as also from the absence of any intimation in the voluminous correspondence and discussions by which the measure was preceded of a desire to dispense with such supervision. They could hardly have wished to enforce strict rules on a minority, while neglecting the greater number, travelling under precisely the same conditions; and had they intended thus to alter an established policy, they would certainly have given some reason for so doing.

"The explanation of the action taken in 1882, which this Bill intends to supplement rather than to alter, is to be found in the last statement, that the conditions are the same. Emigrants passing through Bengal to Assam are divided into two classes—the minority, who have already executed labour contracts under the Act, and the majority, who have not done so as yet: the health of the former is fully protected by law, and rules having the force of law, while for the latter nothing whatever is done. It was anticipated in 1882 that those who had not signed engagements, being as yet free from any legal bond, would be able to take care of themselves, just like other travellers, and if this expectation has not been fulfilled, the result has to some extent been produced by arrangements not contemplated in 1882—in particular by the facilities afforded to employers for putting labourers under contract as they pass through Dhubri, after leaving Bengal. However this may be, it is now matter of daily experience that emigrants of the two classes are obtained and despatched in the same way, being originally recruited in Chota Nagpur and Behar by planters' sirdars, or the contractors' men, or by *arkatis*, as they are called, working on their own account; being collected in depôts, and there detained until a sufficient number has been got together; being then forwarded in large batches, at their master's expense and under his complete control; and their destination being in both cases to work on tea gardens under statutory contracts. That these contracts are, in regard to one class, executed in Assam at the end of the journey, in

regard to the other, here in Bengal, at its commencement, is a matter quite irrelevant when we are dealing with a question of physical health, and one which cannot properly, I submit, be made the ground for a distinction in the sanitary systems adopted for the two classes. A recruit drinking from a tainted well in an unlicensed depôt may imbibe the seed of cholera, although he has never put his mark to a contract; he may develop the fatal germs and spread them among hundreds, although he is called a free emigrant.

"But whatever the requirements of consistency, no change would be proposed in the law if existing arrangements did not work badly in practice. There have been complaints as to the food furnished to emigrants on their journey, the absence of clothing, the abandonment of the sick, and failure to bury the dead; but it is to the state of the depôts that the greatest importance is attached, and it is in these that the greatest improvement may be reasonably expected. The attention of Government was drawn to this point, by those most interested, in a letter which I might be permitted to read:—

'Dated Calcutta, the 22nd August, 1888.

From—G. M. BARTON, ESQ., Assistant Secretary, Indian Tea Association,
To—The Secretary to the Government of Bengal, General Department.

'I AM directed by the General Committee of this Association to hand you herewith printed copy of a letter, dated the 18th of June, from Surgeon-General A. C. C. De Renzy, C.B., to the Secretary of the Indian Tea Districts Association, London, on the subject of the recent outbreak of cholera among coolies proceeding to Assam.

'It will be noticed that reference is specially made to the state of the depôts and the water-supply at Raniganj, and it is suggested that the Government of Bengal should depute a competent medical officer to report on the state of things at that place and at the halting-places between there and Dhubri, and to advise as to the measures that are required to put them in a good sanitary condition.

'The Committee are aware that the Government is already considering certain suggestions for the sanitary supervision of all coolie traffic to Assam; but they are of opinion that the recommendations of Dr. DeRenzy are worthy of attention, and they therefore beg to bring them to the notice of the Government.'

"The enclosure to the Association's letter begins—

'Dated 18, Clyde Road, Dublin, the 18th June, 1888.

From—SURGEON-GENERAL A. C. C. DERENZY, C.B.,
To—ERNEST TYE, ESQ., Secretary, Indian Tea Districts Association.

'CHOLERA has been so fatal this season among the coolies in transit up the Brahmaputra that the Government, I believe, have found it necessary to suspend coolie emigration altogether. As this step must inflict immense injury on the tea interest in Assam, I venture to suggest that the Indian Tea Districts Association should take the opportunity of pressing on the Bengal Government the necessity of measures for preventing a repetition of such a disaster It ought surely to be fully understood that cholera is the most preventible of all epidemic diseases; and when epidemics, such as have lately prevailed among the coolies occur, it may be assumed with absolute certainty that they are due to gross sanitary neglect somewhere.'

"I may quote another passage from Dr. De Renzy's letter as to the Raniganj depôts:—

'A gentleman who has recently been there describes the state of things as follows. He says:—'It would be a miracle if cholera were not bred at that place. The coolies recruited in the Chota Nagpur districts are collected there in depôts before being despatched by railway. The depôts are under no supervision whatever. Depôts that have space for 100 have frequently 900 crammed into them. The water-supply is from three wells, but is mainly drawn from tanks, which are foul in the extreme. The coolies defæcate anywhere and everywhere a yard from the depôts, and on the margins of the tanks. In fact, it is the Calcutta depôt system of 25 years ago.'

"Previous to the receipt of this communication the Lieutenant-Governor had, through the Commissioner of Police, Calcutta, secured the inspection of the free depôts in this town, with the result that three out of seven were found to be in an unsatisfactory state. The entries in a statement before me as to these three depôts are:—

'The sanitary arrangements of the building are bad, the compound and nearly all parts of the building are in a filthy state, the floors of the rooms are undermined by rats: altogether the place is quite unfit for a coolie depôt.

'This place is also in a very bad state: the supply of water for bathing and other purposes is insufficient, and the building is too small for the number of persons accommodated.

'The building is a pucca two-storied one; the compound is not well kept, and the drain round the building is filthy. The accommodation is insufficient.'

"At the request of the Tea Association, Dr. Gregg, the Officiating Sanitary Commissioner, was deputed to inspect the mofussil depôts. He reported that two out of three free depôts visited by him in Chota Nagpur derived their water-supply from wells, the mouths of which were below the surface level, and which were therefore liable to receive the surface drainage. 'On the whole,' he writes, 'the present free depôts are of the most unsatisfactory kind, and should, I think, be placed as soon as possible under proper management and supervision.' As to Raniganj, he observes:—

'There is no doubt that the sanitary arrangements of the coolie depôts at Raniganj are very defective: the water used in them is drawn in many cases from tanks that are not over-clean; the cooking of the food is not properly attended to; and, in fact, there is an absence of that controlling supervision which has been found to be so necessary in respect of the coolie depôts situated in the Suburbs of Calcutta, in connection with Inland and Colonial Emigration. The depôts belonging to known persons number from 20 to 25, and there are many private depôts besides, in which the so-called free emigrants are accommodated until disposed of by persons whose livelihood depends upon such transactions, and with whom at present there cannot legally be any interference. I also admit that there was a foundation for complaints made by these managers in their turn, that their coolies were not sufficiently provided for on the lines of railway, and I take the opportunity of stating that the Railway authorities and Superintendent of Inland Emigration have recently made arrangements to limit the number of emigrants to be carried daily, so as to prevent overcrowding, to provide suitable carriages, good drinking water, to help the travellers at places suitable for refreshment or repose, and to secure adequate medical inspection and treatment.'

"I hope that in reading these extracts, which I think it my duty to place before the Council, I have not conveyed the impression that there is any very gross or scandalous neglect at these depôts. Dr. Comins, the Superintendent of Inland Emigration, who has just completed an inspection more detailed than had been previously made, informs me that he was rather surprised to find that they were no worse; that since attention has been prominently directed to the subject there has been some improvement; and that the managers seem disposed to act on his advice, though he has at present no legal position in regard to them. He did not, however, find that when care was taken in sanitary matters, it was always exercised according to knowledge; for instance, in one case where a brick drain was made at some expense from a latrine, it was given its outlet in a tank, the water of which is used for drinking purposes by the emigrants. I have also to acknowledge that there was much truth in counter-complaints made by the coolie contractors that the arrangements on railways, over which they had no control, were deficient. This is a matter to which the Lieutenant-Governor has recently given much attention with the result that steps have been taken to prevent overcrowding, to secure the use of suitable carriages, to establish medical inspection on the route, and afford medical assistance, as also to provide for necessary halts, for food and repose. It is well known that coolies when first taken away from their homes are, for reasons easily understood, peculiarly liable to cholera, and, therefore, need special care to guard them against infection, the results of which cannot be prevented by any subsequent treatment. And it is also obvious that as coolies from different depôts are brought together in the train, at Dhubri, and on the Assam steamers, any outbreak of cholera among one batch is likely to spread widely, so that the most careful master may suffer for the neglect of his neighbour. For instance, the depôts for coolies recruited according to the Act are, by all accounts, kept in excellent order under Government supervision, but their inmates can have no exemption from cholera on the journey if they are massed with men coming from an infected depôt. It is the case of the chain-cable no stronger than its weakest part; to provide for the safety of the ship we have to test every link. Such being the circumstances, I hope that this Council, and those interested in the great tea industry, as also the public generally, may accept a Bill which, though it does not purport to deal with the whole question of the supply of labour to Assam, is, I submit, sufficient for its purpose, and can hardly fail to effect an immediate and appreciable improvement in the sanitary condition of the places where cholera is too often generated."

The Motion was put and agreed to.

MOHAMMEDAN BURIAL BOARD'S BILL.

The Hon'ble SIR HENRY HARRISON introduced the Bill "to provide for the appointment of a Mohammedan Burial Board in Calcutta" and moved that it be read in Council.

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble SIR HENRY HARRISON also moved that the Bill be referred to a Select Committee consisting of the Hon'ble Sir Alfred Croft, the Hon'ble Mr. Allen, the Hon'ble Dr. Mahendra Lal Sircar, the Hon'ble Shahzada Mahommed Furrokh Shah, and the Mover. He said:—

"With your Honour's permission, I should like to add that permission to report thereon be given within a fortnight. With reference to the explanation which has fallen from the hon'ble member opposite, I think it would be advisable if leave were given to this Committee also to report in a fortnight if it sees its way to do so. Although the rules which may be framed under the Bill may require a great deal of care and consideration, the Bill itself is of a somewhat simple character, and I think it quite possible for the Select Committee to report within a fortnight; and as it has been represented that the appointment of the Board is urgently required within the present year, it seems desirable to pass the Act as soon as possible."

The Hon'ble the PRESIDENT—"If no one objects, I shall give the permission."

The Motion was put and agreed to.

The Council adjourned to Saturday, the 20th April, 1889.

CALCUTTA;
The 11*th April*, 1889.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Dept.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 13*th April* 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.		*Western Districts.*		
BURDWAN DIVN.	1	Burdwan April 13, '89	1·01	Weather—hot and dry. Sugarcane outturn 12 annas. The recent rain has had no effect on prices. It will allow of ploughing in places. More rain wanted Only *til* and *boro dhan* on the ground. Their prospects are fair.
	2	Bankoora „ 13, '89	1·44	Weather—cooler since the late showers. Rain has benefited *til* and cotton plants, and has facilitated ploughing for rice sowing. Prices stationary.
	3	Birbhum „ 13, '89	0 03	Weather—rather cooler owing to storms, but the rainfall everywhere has been practically *nil*. No crops to report on. Prices steady. Rain wanted for ploughing.
		Rampur Hât ...	A few drops on 9th.	
	4	Midnapur „ 13, '89	1·17	There has been moderate rain during the last three days. It has done some good to the *boro* crop. Both *boro* and *til* are fair crops, but high wind has damaged the former in places.
	5	Hugli „ 13, '89	1·62	Weather—cool since rainfall. All crops doing well. Rain has done good and enabled ploughing to be done in many places.
		Serampur .	0·45	
		Jehanabad ..	1·00	
		Howrah „ 13, '89	1·18	Weather—cool nights and mornings, hot days; some hail on the 10th. *Boro* harvest begun; a 10-anna crop expected. Some local damage done by hail.
		Central Districts.		
PRESIDENCY DIVN.	6	24-Perghs. April 13, '89	2·24	Weather—very hot. No crops on the ground, except sugarcane which is doing well. Tillage going on. More rain much wanted. Prices of food-grains vary from 14 to 16 seers per rupee.
	7	Nuddea „ 13, '89	0·51	Weather—hot and dry; cloudy towards end of week. No crops in the field now, except sugarcane and indigo which are doing well. The late rain has done much good to lands which are being ploughed for early rice.
		Meherpore ...	2·40	
		Ranaghat ...	0·92	
	8	Khoolna „ 13, '89	0·69	Weather—seasonable. *Boro* and *til* doing well in Bagirhat, but are suffering in Khoolna and Satkhira for want of sufficient rain.
	9	Jessore „ 13, '89	0·77	Weather—hot and dry. The rainfall on the night of the 9th has been beneficial to the cultivation of lands for *aus* and jute. More rain is wanted.
		Magura ...	0·10	
		Narail ...	0·70	
		Bongong ..	0·82	
	10	Moorshedabad „ 14, '89	Nil	Weather—hot and cloudy at times. Lands are being prepared for *aus*; but rain is much wanted.
		Kandi ...	0·10	
		Jangipur ..	0·34	
RAJSHAHYE DIVN.	11	Dinagepur „ 13, '89	Nil	Weather—westerly winds and hot. Jute and *bhadoi* sowings are in progress.
	12	Rajshahye „ 13, '89	0·05	High west winds and much dust. Rain much wanted. Price of rice has risen from 16½ seers to 15½ seers per rupee. Fodder is very dear.
		Nowgong ...	0·03	
	13	Rungpur „ 13, '89	Nil	Weather—cooler than in the previous week. High winds and sky occasionally overcast. *Aus* rice sowings have been completed to the extent of 12 annas. The prolonged drought has prevented the seeds from germinating as well as they should have done; but it also keeps grass and weeds down, and is by no means an unmixed evil. Jute is also backward. Serious apprehensions of a general failure of water-supply are entertained in some quarters, and measures have been taken to re-excavate wells and tanks.
	14	Bogra „ 13, '89	Nil	Weather—hot and dry. Winds variable, sometimes very high. Occasional signs of rain, but only a few drops fell on one day, inappreciable in the gauge. There are scarcely any standing crops. Jute and *aus* rice are being much sown, but rain is very wanted for ploughing and for germination. Coarse rice steady at 21 seers per rupee.
	15	Pubna „ 13, '89	0·05	Weather—cloudy, duststorms. Rain wanted badly for sugarcane, *boro dhan* and *aus* sowings.
	16	Darjeeling „ 13, '89	0·36	Weather—seasonable. Harvesting of *rubbi* crops going on.
	17	Julpigoree „ 13, '89	Nil	Weather—days hot, mornings cool; east wind prevailing. Sowings of jute and paddy going on. Rain is much wanted for winter crops. Prices are somewhat high.
		Eastern Districts.		
DACCA DIVN.	18	Dacca April 13, '89	Not shown.	Weather—very hot, cloudy at times, and windy. Cultivation of jute and rice going on. Sowings are delayed for want of moisture. Damage has also been done to the crops in the field for want of rain.
	19	Furreedpur „ 13, '89	0 33	Weather—cloudy. A little rain on the 10th and 11th, not enough to benefit the crops; more wanted.
	20	Backergunge „ 13, '89	0·52	Weather—very hot. Ploughing for *aus dhan* progressing, but more rain is wanted.
	21	Mymensingh „ 13, '89	Nil	Weather—days hot, nights fairly cool. Harvesting of *boro* rice is nearly over. Rain wanted for other crops.
		Kishoreganj ...	0·19	
CHITTAGONG DIVN.	22	Chittagong „ 16, '89	0·15	Weather—hot. Prospects of winter crops unfavourable. More rain wanted. Lands for *aus* being prepared. Prices stationary.
	23	Noakholly „ 13, '89	Nil	Weather—warm and sultry. Harvesting of *rubbi* crops nearly finished. Sowing of *aus* still continues. Rain wanted. Betelnut and cocoanut flowering.
	24	Tipperah „ 13, '89	0·69	Weather—hot and seasonable. About nine annas of *aus dhan* and six annas of *amun dhan* have been sown. The late rain has done good to the standing crops.
	25	Chittagong Hill Tracts. ...		Report not received.
		Hill Tipperah „ 13, '89	Nil	Weather—hot and dry with occasional clouds. Rain much wanted for ploughing. *Boro* paddy and chillies also suffering from want of rain. Prices stationary.

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.				
Patna Divn.				
26	Patna	April 13, '89	Nil	Weather—hot and seasonable. Harvesting of *rubbi* crops has now been completed. Threshing continues. Agricultural stock sufficient. Fodder adequate. In Barh prices of food-grains rising.
27	Gya	„ 13, '89	Nil	Weather—hot. Threshing of *rubbi* crops going on. Sugarcane being irrigated. Weighments of opium in progress.
28	Shahabad	„ 13, '89	Nil	Weather—hot with clouds and slight storms. Sugarcane and *cheena* sown on full area. Harvesting of *rubbi* crops completed; outturn ten annas. Prices of wheat and pulses falling and of rice stationary. No account of opium crop received from Sub-Deputy Opium Agent.
29	Durbhunga	„ 13, '89	A few drops.	Weather—changeable. Easterly winds changed to westerly. *Rubbi* crops gathered; outturn in Tajpur 12 annas, in Durbhanga 10 annas, and in Modhubani 8 annas. Mustard a full crop of 16 annas; linseed 12 annas; rahar 10 annas; wheat 10 annas; opium 16 annas. Rain wanted for indigo and *cheena*. Mango prospects continue good. Prices stationary.
30	Mozufferpur	„ 13, '89	Nil	Weather—hot with west wind. Harvesting of *rubbi* continues. Rain wanted for *cheena*. Indigo has suffered from caterpillars. Linseed outturn estimated at 6 annas in Sitamurhi, 8 to 10 annas in Sudder, and 12 annas in Hajeepur.
31	Sarun	„ 13, '89	Nil	Weather—seasonable Harvesting of *rubbi* almost completed; outturn 12 annas. *Cheena* doing well.
32	Chumparun	„ 13, '89	Nil	Weather—clear and dry; nights still cool. Opium weighments in progress both at Motiharee and Barhurwa Rain wanted for *cheena* on unirrigated lands. Indigo prospects improving.
Bhagulpore Divn.				
33	Monghyr	„ 13, '89	Nil	Weather—hot and dry. *Rubbi* harvest finished; threshing is going on. Indigo coming up well.
34	Bhagulpur	„ 13, '89	Nil	Weather—sultry; signs of rain have cleared off. *Rubbi* harvest closing. *Mohwa* outturn good. Sugarcane and *mung* doing well. Prices steady.
35	Purneah	„ 13, '89	Nil	Weather—seasonable and hot, but very unhealthy owing to want of rain and prevalence of east wind. The *rubbi* crops are being harvested; other agricultural operations are stopped for want of rain.
36	Maldah	„ 13, '89	Nil	Weather—sultry. *Rubbi* harvest almost complete with 12 annas outturn. *Boro* paddy is being watered and doing fairly. Rain is wanted for this crop and for *bhadoi* lands which are being prepared and sown.
37	Sonthal Perghs.	„ 13, '89	Nil	Weather—hot. Wheat 12 to 16 annas in Rajmehal and Pakour and 6 annas in Deoghur. *Boro dhan* about 16 annas in Rajmehal. *Mohwa* 12 to 16 annas.
	Jamtara	...	0·34	
	Pakur	...	0·49	
	Dumka	...	0·59	
ORISSA.				
Orissa Divn.				
38	Cuttack	„ 13, '89	Nil	Weather—mornings cool, but days hot and sultry. Ploughing of *beali* and *sarad* lands proceeded to the extent of 4 annas throughout the district. Rain wanted for further progress. *Dalua* harvested to the extent of 6 annas. The outturn is expected to be 10 annas.
39	Pooree			Report not received.
40	Balasore	„ 12, '89	1·51	Weather—much cooler since the fall of rain on the 9th instant. Rain has improved prospects of crops. More rain wanted. *Dalua* rice is still being reaped.
CHOTA NAGPORE.				
South-West Frontier Agency.				
Chota Nagpore Divn.				
41	Hazaribagh	April 13, '89	0·46	Weather—cloudy and unsettled during the first part of the week; bright, clear and hot for the last two days. Sugarcane doing well. Some slight damage to *mohwa* by cloudy weather; yield expected to be from 12 to 16 annas. Prices stationary.
42	Lohardugga	„ 13, '89	0·47	Weather—cool. Rain with hail almost throughout the head-quarters sub-division *Mohwa* falling—partly damaged by rain, hail and cloudy weather. Mango crop a failure. Prices stationary.
43	Singbhoom	„ 13, '89	1·10	Weather—cool for the time of year. Stormy and threatening during the last three evenings. A storm accompanied with severe hailstorm and followed by showers of rain took place last Wednesday afternoon (10th). Ploughing of rice lands in progress. Outturn of lac will be about 4 annas only, the crop having been injured from want of rain in September and December and by the recent hailstorm.
44	Manbhoom	„ 13, '89	1·2	Weather—cloudy with occasional storms. Wheat and barley about to be harvested; outturn expected to be about 12 annas. Outturn of *mohwa* is about 8 annas, but is much higher in a few places. "Rangin" lac gathering has begun; outturn 8 annas.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 16*th April* 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of January, 1889.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS. Rice and Paddy. Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	FIBROUS PRODUCTS. Jute, raw.	Gunny bags.†	OILSEEDS. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR. Drained.	Undrained.	TOBACCO. Unmanufactured.	Manufactured.
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Burdwan ...	1,65,835	22,841	1,80,111	94	1,007	...	1,82,203	...	8,540	1,697	...	570	...	31	...	...	...	1
Beerbhoom ..	93,035	...	93,035	...	...	...	39,035	...	3,745	...	...			379	...	...		...
Midnapore ..	3,33,269	20 473	3,46,064	...	1,371	2	3,47,487	1,082	5,480	2 772	402	...	15	171	8	7	5	4
Hooghly ..	74,568	36,966	97,670	545	3,229	5	1,01,449	75,741	375,450	19,980	...	...	950		323	3,659	6,904	241
24-Pergunnahs ..	3,01 609	26,050	3,19,705	...	630	...	3,20,395	70,003	465,550	25	300	...	1,825		5,931	45,071	1,928	407
Nuddea ...	25,107	1,708	26,174	4,779	76,458	1,243	1,08,654	18,295	1,295	10,871	509		116	105	60	8 587	1,348	303
Khulna ...	64,192	56,100	99,256	...	...	...	97,256	9,312	...	...	...	...	...	...		7,631		...
Jessore .	78,073	12,650	89,979	...	3,400	...	84,379	21,600	...	229	...	...	...	...	329	32,470	1,142	302
Moorshedabad ..	3,043	...	3,043	2,308	5,709	199	11,259	2,317	...	1,063	400	...	...	496	...	...	2	...
Dinagepore .	6,670	...	6,670	...	2,144	...	8,814	47,907	208,170	...	174	...			...	...	353	...
Rajshahye ...	951	...	951	150	8,521	...	9,622	16,748		4,995	208	...	...	233	...	...		...
Rungpore .	286	...	286	...	229	...	515	1,97,775	72,905	...	535	...	...	...	...	...	329	22,682
Bogra ...	10,696	...	10,696	...	114	...	10,810	5,627	7,420	...	98		...	...	...	...		
Pubna ...	...	...	...	...	6,493	...	6,493	2,50,259	387,030	173	9,392		...		...	...	89	497
Darjeeling ...	...	...	...	...	...	...	...	2,565	72,170	...		1,889		...			...	
Julpigoree ...		...	...	...	...	...	...	78,311	80,605	...	178	3,897			...	...	...	1,872
Dacca .	23,832	...	23,832	32	2,571	...	25,435	2,47,575	...	...	515	12	1,538	...	...	...	...	...
Furreedpore ..	26,163	1,400	27,038	...	3,422	...	30,460	2,18,587	105	191	2,841	5	1,372	42	...		...	293
Backergunge	12,47,662	1,000	12,48,662	...	...	...	12,48,662	4,175	...	...	...	...	...	...	...		...	...
Mymensingh ...	5,335		5,335	...	87	...	5,122	1,01,623	...	...	772	...		...	...	...		...
Tipperah ..	38,125	1,300	38,938	...	...	...	38,938	600	...	...	...	...		...	...	...		
Chittagong .	500	...	500	...	...	...	500	...	...	...		1,214	1,350		...	...	25	...
Noakholly ..	40,725	3,700	43,037	...	400	...	43,437	289	...	...	...				...			...
Total of Bengal ..	25,34,674	1,87,788	26,52,012	7,908	1,16,775	1,449	26,73,174	13,65,401	1,688,477	41,996	16,324	7,587	7,205	1,457	6,660	97,975	12,125	26,602
BEHAR.																		
Patna ..	...	...	...	6,634	16,861	1,294	24,789	...	2,275	42,161	5,775	...	29	5	...	470	206	2,329
Gya ...		...	...	4,302		...	4,302	...	845	6,303	...	...	...	...		1,196	...	96
Shahabad ..	...	...	...	13,539	5,951	81	19,571	171	175	5,146	400	...		...	1	4,644		...
Mozufferpore ..	297	...	297	...	1,477	1,744	3,518	...	...	1,541	...		...		...		...	...
Durbhunga	...	...	...	18	1,930	...	1,948	...	805	22,260	972	...	...		...		72	60
Sarun ...			...	4,025	3,183	644	7 852		70	4,692	360	...	...	...	...			
Chumparun ..	4	...	4	...	751	836	1,091	...	...	3,751	...	...	...	...	...	...		...
Monghyr ...	...	...	...	2,024	18,654	...	20,678	...	840	1,201	726	...	13	...	...		...	2
Bhugulpore	1	...	1	4,748	3,161	4,171	12,071	464	210	5,630	7,235	...	...	...	...	...	...	...
Purneah ..	1,864	...	1,864	1,296	2 512		5,702	3,804	3,500	2,693	3,828	...	...		...	...	...	...
Maldah		...	...	1,043	1,248	426	2,717	10,021	...	399	600	...	...	...	...	...	...	...
Sonthal Pergunnahs.	303	...	303	5,362	24,029	...	29,694	62	385	8,679	8,669	...	...	78	...	...	...	...
Total of Behar .	2,469		2,469	43,011	79,587	8,696	1,33,903	14,582	9,205	1,04,467	28,565	...	42	83	1	6,310	278	2,478
ORISSA.																		
Cuttack ..	600		600	...	609	...	1,209	685	1,200	500	470	...		...	...	...		...
Balasore .	77,067	2,532	79,349	...	162		79,511	3,892	7,801		...	...		15		...	...	...
Total of Orissa	78,667	2,532	79,949	...	771	...	80,720	4,577	9,001	500	470		...	15	...	...	...	...
CHOTA NAGPORE.																		
Hazaribagh			...	...		...	...	...	1,435	...	299	22	...	...	...	...	...	
Manbhoom .	56		56	...	...		56	...	210	...	...		...		...		...	...
Total of Chota Nagpore.	56		56	...	...	...	56	...	1,645	...	299	22			...	...	...	...
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	26,15,566	1,90,320	27,34,516	50,949	1,97,333	10,115	29,92,943	13,84,650	17,08,529	1,46,963	45,658	7,609	7,247	1,555	6,661	1,04,285	12,403	29,080
OTHER PROVINCES																		
Assam	925		925		6	...	931	45,895	...	125	7,075	55,031	986	1	...	...		
North-Western Provinces and Oudh	72		72	42,411	5,404	307	48,194	...	560	59,906	12,323	631	1,02,101	6	473	168	2	8
Punjab	1	...	1	2,793	8,462	606	11,862				...	338	6,540	...	...	...	...	...
Central Provinces		...	...	...	605	8	618			1,595	...		24	6	...	...		...
Rajputana States		...	...	...	...	10	10	...	35	581			7,871				1	2
Nepaul		...	...	513			513	...	...		...					...		2
Bombay .			...	...		...	...	...	...	...	...		7,712	2	4,911	...	213	349
Madras ..	...			...	6,162		6,162			...	...	...		...		...	...	...
Burmah	...	...		...		...		...				...	7,960					24
Other places .	...			...	195	195	390		2,209		...		...	2	30,833			679
Grand Total of Imports in Jan. 1889	26,16,564	1,90,320	27,35,514	96,066	2,18,167	11,266	30,6?,613	14,30,545	1,711,132	2,08,970	65,056	64,209	1,10,441	1,572	42,878	1,04,453	12,619	30,044
Grand Total of Imports in Jan. 1888	27,80,072	1,40,739	28,68,034	1,21,023	3,63,547	16,718	33,73,222	10,23,689	2,146,509	3,86,108	79,723	53,187	1,83,318	1,873	62,146	89,786	25,652	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of January, 1889, *was as follows :—*

Exported from Calcutta.	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar, Drained.	Sugar, Undrained.	Tobacco, Unmanufactured.	Tobacco, Manufactured.
To Indian ports, viz.—																		
Bombay .	2,90,091	30	2,90,110	...	10,855	...	3,00,965	...	1,476,525	...	240	1,136		...	376	...	...	1
Other ports in Bombay	2,694	...	2,694	...	...	...	2,694	...	12,750	...	...			...	12	...		
Madras ..	679	...	679	...	16,705	499	17 883	...	171,050	...	...	9	...	80	...		...	2
Other ports in Madras ..	83,296	898	83,857	...	2,068	...	85,925	...	536,074	...	...	4	...	16	7	...		15
Burmah ...	5,766	...	5,766	3,766	13,208	3	22,743	246	1,886,400	...	...	57	116	...	480	61	23,382	333
Other Indian ports ..	1	...	1	...	1,115	16	1,132	...	218,?80	...	...	...	3	...	1,327	...	2,121	57
Pondicherry .	...	...	...	30	...	...	30	...	180,000		...	...	...	...	...	...	...	...
Total of Inter-portal trade ..	3,82,527	928	3,8?,107	3,796	43,951	518	4,31,372	246	4,281,679		240	1,206	119	96	2,002	61	25,703	558
To Foreign ports—United Kingdom	1,79,427	...	1,79,427	21,926	41,579	7,749	2,50,681	9,37,135	1,799,700	3,66,935	781	90,078	15,966	187	...	4	2	7
Other Foreign ports ...	7,96,948	2,429	7,98,466	1,158	33,202	...	8,52,826	9,56,695	3,024,950	3,27,988	31	5,042	69,343	893	957	242	639	550
Total of Foreign trade ...	9,76,375	2,429	9,77,893	23,084	74,781	7,749	10,83,507	18,93,830	4,824,650	6,94,923	812	96,020	85,309	1,080	957	246	641	557
Grand Total of Exports in Jan. 1889	13,58,902	3,357	13,61,000	26,880	1,18,732	8,267	15,14,879	18,94,076	9,106,320	6,94,923	1,052	97,226	85,428	1,176	2,959	307	26,344	965
Grand Total of Exports in Jan. 1888	21,56,529	5,395	21,59,901	87,754	3,27,309	2,748	25,77,712	8,80,666	10,401,994	6,69,252	70	87,063	82,280	1,003	4,391	389	19,161	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta, during the month of January, 1889.

IMPORTS INTO CALCUTTA.

Specification of Routes.	Food-grains.					Fibrous Products.		Oilseeds.		Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar.		Tobacco.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.
By country boats ...	22,05 100	1,60,913	10,568	81,675	2,177	5,37,582	840,002	46,878	15,734	.	2,736	128	1,828	39,437	7,836	2,497
„ river steamers .	35,001	684	63	4,547	2	2,65,089	. .	343	5,745	54,404	999	58	51	3	67	...
„ rail { East Indian Railway	2,18,286	22,611	86,035	85,322	8,802	... .	23,520	1,59,544	31,789	1,561	1,16,294	1,003	474	6,478	283	206
„ rail { Eastern Bengal State Railway.	22,384	223	. .	39,488	... ..	5,54,208	819,000	2,180	11,768	7,030	3,421	366	320	25,354	418	26,165
„ road .	61,001	3,417	......	616	....	69,835	10,000	25	... ..	... ..	. .	... ..	4,452	38,181	3,777	226
„ sea	74,792	2,472	.. ..	6,519	195	3,831	9,610	. .	.. .	1,214	16,991	17	35,744	.....	238	950
Grand total of Imports in January { 1889 ...	26,16,564	1,00,320	96,666	2,18,167	11,266	14,30,545	1,711,182	2,08,070	65,056	64,209	1,40,441	1,572	42,878	1,04,453	12,619	30,044
Grand total of Imports in January { 1888 ..	27,80,072	1.40,739	1,24,923	3,63,547	16,718	10,23,689	2,146,509	3,86,408	79,723	53,187	1,83,346	1,873	62,146	89,786	25,052	

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta, during the month of January, 1889.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	1,89,370	3,410	405	892	40,985	106,740
Beerbhoom ...	92,799	550	108	546	15,674	82,425
Midnapore ...	1,96,271	. .	3,294	.	22,390	28,480
Hooghly ..	1,04,436	1,860	949	81	1,805	49,853
24-Pergunnahs ..	1,44,623	7,055	229		10,779	21,334
Nuddea ...	3,15,074	...	1,798	.. ..	22,260	42,910
Khulna ..	56,208	... ..	80	. .	9,265	... .
Jessore ...	99,202		1,425		26,885	455
Moorshedabad	87,714	2,530	241	41	9,686	15,695
Dinagepore ...	1,01,934	...	294	.....	8,309	8,600
Rajshahye ...	2,07,648		80	.. ..	15,326	10,410
Rungpore ...	2,76,066	. ...	564	. ....	14,924	4,970
Bogra ...	1,86,291	.. ..	21	.. ..	7,927	21,910
Pubna ...	2,17,161	.....	227	....	53,252	7,475
Darjeeling ...	1,03,572	.. ..	212	..	4,760	875
Julpigoree . .	58,023	. ..	212	..	6,168	.
Dacca ...	7,15,353	......	1,809	584	18,881	3,325
Furreedpore ...	5,92,144	.	909		22,047	2,135
Backergunge ...	1,09,260	. . .	131		21,580	3,290
Mymensingh . .	61,047	......	9	.. ...	8,000	1,050
Tipperah ...		.	......	. ..	7,750	..
Chittagong ..	72,002		136	..	700	26,850
Noakholly ...	.. ..	......	... ..		6,150	.. ..
Total of Bengal ..	39,66,598	15,405	13,133	2,134	3,50,403	4,33,782
BEHAR.						
Patna ...	2,20,122	1,540	215	158	17,998	65,735
Gya ...	1,05,625	1,210	31	402	14,135	910
Shahabad .	2,34,738	110	1	242	20,439	19,390
Mozufferpore ...	98,454	220	...	18	5,414	735
Durbhunga ...	2,75,121	770	5	667	40,899	17,395
Sarun . .	2,07,711	.	2	71	9,325	4,655
Chumparun ...	2,90,934	.. .	79	153	12,031	7,525
Monghyr ...	87,507	.. .	8	256	6,601	27,785
Bhagulpore ...	1,99,080	..	39	380	17,794	42,735
Purneah ...	1,58,571	. ...	56	961	8,999	10,405
Maldah ...		...	.. ..	..	10,457	1,700
Southal Pergunnahs	2,31,462	.....	165	782	24,874	53,830
Total of Behar . .	21,08,925	3,850	601	4,090	1,88,966	252,800
ORISSA.						
Cuttack		..	4	......	400	7,800
Balasore .	1,44,075	285	5,160	.. ..	18,472	183,980
Total of Orissa	1,44,075	285	5,164	... ..	18,872	191,780

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European	Indian.		
CHOTA NAGPORE.	Rs.	Rs.	Mds.	Mds.	Mds.	No.
Hazaribagh	29,484	550	..	60	5,110	1,085
Manbhoom . ..	58,527	. .	23	1,227	9,014	2,695
Total of Chota Nagpore	88,011	550	23	1,287	14,124	3,780
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal	63,07,609	20,090	18,921	7,511	5,72,305	882,142
OTHER PROVINCES.						
Assam	3,85,975	......	100	92	37,816	1,085
North-Western Provinces and Oudh	23,14,720	660	2,022	643	22,258	310,310
Punjab	8,52,642	3,520	643	16		294,385
Central Provinces ...	29,043	..	344	13	.	121,730
Rajputana States	24,948	...	253	.....		23,800
Nepal	126	. ...	... ..	. .		.. ...
Nizam's Territory	883	.	.. ..	.. .	..	. . .
Bombay	189	440	..	. .	...	1,489,310
Madras	78,376	...	518	18	..	507,624
Pondicherry	295	...	..	. ..		180,000
British Burmah	1,72,344	. .	135	1,163	......	1,886,400
Other places	32,589	1,462	46	2,909	15	4,824,650
Grand Total of Exports in January } 1889 ...	1,01,99,738	26,172	23,582	12,365	6,32,454	10,521,436
Grand Total of Exports in January } 1888 ...	1,09,73,188	98,268	22,866	13,585	5,78,633	11,954,341

The Sea-borne Trade of Calcutta in these Staples during the month of January 1889 was as follows:—

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	1,41,70,260	. ....	24,644	... ..	5,43,005	... ..
Other Foreign ports ...	79,813	.. .	345	13	1,23,132	2,209
Total of Foreign Trade ...	1,42,50,073	......	24,989	13	6,66,137	2,209
From Indian Ports—						
Bombay	3,745	75,300	2	10,104	33,675	......
Madras	3,781	29,341	......	836	.	.... .
Other ports in Madras ..	......	459	......	566	5,396	......
Burmah	4,365	2,260	......	...	... .	... ..
Other Indian ports ..	... .	... .	......	.. ..	....	7,401
Total of Interportal Trade ...	11,891	1,07,360	2	11,506	39,071	7,401
Grand Total of Imports in January { 1889 ..	1,42,61,964	1,07,360	24,991	11,519	7,05,208	9,610
Grand Total of Imports in January { 1888 .	99,94,733	91,075	17,566	9,470	10,27,535	29,700

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta, during the month of January, 1889.

Specification of Routes.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,60,574	1,660	3,750	......	2,66,219	189,584
„ river steamers	7,37,355	..	1,039	670	18,666	37,566
„ rail { East Indian Railway	57,34,512	15,510	5,117	7,500	3,62,463	1,149,470
„ rail { Eastern Bengal State Railway	28,90,503	....	7,058	. .	64,692	81,285
„ road	1,77,713	7,055	619	39	4,202	7,252
„ sea	4,99,085	1,747	5,999	4,090	16,212	9,106,389
Grand Total of Exports in January ... { 1889 .	1,01,99,738	26,172	23,582	12,365	6,32,454	10,521,436
Grand Total of Exports in January ... { 1888 ...	1,09,73,183	98,208	22,866	13,585	5,78,633	11,954,341

STATISTICAL DEPARTMENT,
The 13th April, 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 7th to 13th April 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
April	7th	148·5	8 4	29·713	86·7	98 7	22·1	76·6	75·5	0·742	70 3	59	SW and SSW ..	232	Nil	Chiefly clear.
"	8th	145·5	8 9	·726	86·0	95·5	18·7	76·8	78·4	·874	75·2	72	SSW and variable ...	115	"	Chiefly clear.
"	9th	145·4	8 3	·811	81·7	89·1	12·7	76·4	76·6	·853	74·4	79	SSW and variable ...	138	0·20	Chiefly cloudy, o, g, p, t, ꓘ.
"	10th	146·0	[illegible]·3	·842	80·5	9 ·5	22·2	69 3	75·0	·801	72·5	77	SSW and variable ...	148	0·12	Chiefly cloudy, o, g, p, ꓘ, /.
"	11th	147·7	8·8	·827	81·4	90·4	22·5	67·9	74·5	·768	71·3	71	SSW and variable ..	125	0·84	Chiefly cloudy, o, g, p.
"	12th	149 3	10·1	·772	84·8	97·3	24·1	73 2	77·5	·846	74·2	73	WSW and SW by S	122	Nil	Chiefly clear, ⌒.
	13th	147·5	9 5	·749	85·3	95 4	22·9	72·5	75·7	·766	71·2	64	SW and S ...	75	"	Chiefly clear.

	Inches.
The mean pressure of the seven days	29·777
The average pressure of the corresponding period for 24 years, S. G.'s Office ...	29·753
	Hours.
The total number of hours of bright sunshine	54·3
The maximum possible number of hours of sunshine	87·7
	°
The mean temperature of the seven days	83·8
The average temperature of the corresponding period for 24 years, S. G.'s Office	84·8
The extreme variation of temperature	30·8
The maximum temperature	98·7
	Miles.
The highest velocity of the wind in one hour	23
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	13
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	69
	Inches.
The total fall of rain from 7th to 13th April 1889	1·16
The average fall of the corresponding period for 24 years, S. G.'s Office ...	0·29
The total fall from 1st January to 13th April 1889	4·70
The average fall of the corresponding period for 24 years, S. G.'s Office ...	3·40

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, ꓘ thunderstorm, / strong wind, ⌒ dew.

N.B.—In the weekly report from 24th to 30th March 1889 read 119 and 97 for 199 and 72 miles as the miles recorded on 26th and 30th March 1889 respectively.

A. PEDLER,

For Offg Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 15th April 1889.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	29·868	29·880	—	SW&SSW	322	89·2	6th & 10th.	76·1	11th April	87 2	78·9	83·1	—	81·5
		Gopalpore ..	29 851	29 901	+·034	SW	521	88·7	11th April 6th „	77·8	10th & 11th April	86·4	79 8	82 9	+1·4	82 5
		False Point ..	29·863	29·885	+·042	South-Westerly.	357	90 5	6th „	71·6	11th „	88 4	77·7	83·1	—0 9	82 8
	Cuttack	Cuttack ...	29·803	29·885	+·055	SSW	126	107·9	6th „	74·8	6th & 7th April	102·0	77 3	89·7	+0·8	83 4
	Balasore	Balasore ..	29·802	29·862	+·044	South-Westerly	331·1	103·5	6th „	64·7	10th „	98 0	73·5	85 8	+1 2	80·1
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·847	29 873	+·042	S	453	93·2	7th „	72·5	11th „	91 5	79·1	85·3	+1 3	83·0
	Midnapore	Midnapore ..	29·705	29·857	+·050	S	143·5	108·4	7th „	65·2	11th „	102·2	72·0	87·1	—0·7	81·5
	24-Pergunnahs ... ..., Howrah ... ..., Hooghly	Calcutta ...	29 831	29·853	+·036	SSW	147	101·4	6th „	67 7	11th „	95 4	73·3	84·3	—0·5	80·2
	Burdwan	Burdwan ...	29 740	29·841	+ 029	S & S W	79 0	108·4	7th „	70·4	10th „	101 2	73 6	87·4	+0 1	79 1
	Bankoora	Bankoora ...	29·527	29·829	—	Westerly	109	109 3	7th „	70·1	11th „	103 1	77 4	90 3	—	81·5
	Beerbhoom ... ..., West Burdwan	Raneegunge ...	29·515	29·824	+·053	Variable	84·8	109 5	8th „	69 9	11th „	103·6	75·1	89·4	+2·6	84·0
	Moorshedabad	Berhampore.	29·771	29·838	+·035	S & SW	128·1	108·2	8th „	68·2	10th „	102 7	73·0	87·8	+1·2	81 0
	Nuddea	Krishnaghur ..	29·807	29·874	+·078	WSW	150·2	106 8	7th „	67 1	10th „	99 5	73 0	86 3	+2 1	80 7
	Jessore ... ..., Khoolna	Jessore ...	29·823	29·857	+·033	SSW	83·5	106·7	7th „	69 4	10th „	99 0	73 5	86 3	+0·8	82·2
East Bengal.	Chittagong	Chittagong ..	29·828	29·919	+·032	S	150·6	95·2	6th „	72 5	6th „	91 8*	73 4*	82 6	+2 0	81·4
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ..	29·868	29 880	+ 058	S	171·4	99·3	7th April	68·4	10th „	94·0	73 9	84·0	+2 1	80 8
	Noakholly	Noakholly ...	29 828	29 872	+·024	Southerly	170 8	92·5	7th „	68 8	10th „	90 6	74 5	82 5	+1 8	81·4
	Furreedpore	Furreedpore*	29·822*	29 862*	+ 035	South-Westerly	157	103 5	7th „	66·4	10th „	96 2	72 8	84 6	+2 3	80·7
	Dacca	Dacca ..	29 843	29·881	+·038	SS	126·5	104·0	7th „	67·2	10th „	98·4	73 9	86 1	+3·1	81·5
	Tipperah	Commillah ...	29·840	29·876	+·039	S	166·4	99·3	6th „	67·3	11th „	95 0	72·9	84·3	+3 1	79·8
	Mymensingh	Mymensingh .	29·795	29·880	+·056	E & SSE	132·1	101 5	8th „	68 1	10th „	96·5	73 4	85·0	+1·7	80·0
North Bengal.	Bogra	Bogra .	29 706	29·820	+·050	S, SSE	65·3	106 6	8th „	65 4	10th „	100 8	71·3	86 1	+4 1	80 9
	Pubna	Serajgunge ...	29·796	29 843	+·048	Variable	86·9	107·0	8th „	64 2	10th „	99 5	69 7	84 6	+2 5	80 2
	Rajshahye	Rampore Beauleah.	29·759	29 820	+·044	SW & SE	143·8	106·3	8th „	67 2	10th „	99 6	72·0	86·1	+3·1	81 0
	Maldah	Maldah ..	29 757	29·840	—	Variable	85·2	101 8	9th „	67·8	11th „	100·6	69 4	85 0	—	80 9
	Dinagepore	Dinagepore ..	29 747	29·838	+ 061	SSW	101	102 6	9th „	64·2	10th „	99 3	69·6	84 5	+2 9	77·3
	Rungpore	Rungpore ..	29·731	29·858	+ 047	SSE	112	99 9	8th „	62 2	11th „	95·6	68 2	81 9	+2·7	78 9
	Julpigoree ... ..., Cooch Behar	Julpigoree ...	29·555	29 847	+ 020	E	42 7	97·9	12th „	57 9	10th „	95·0	62·1	78 7	+1·3	75·0
	Darjeeling Hill Tracts ...	Darjeeling ...	23 001	—	+·067	Calm	296 5	67 8	8th „	45 1	8th „	65·2	49·5	57 4	+4·6	57·3
North Behar.	Purneah ... .., North Bhagulpore ...	Purneah ..	29·697	29·825	+·037	Calm	86·2	1 ·3 8	9th & 10th April	63 5	10th „	109·6	69·5	85·1	+2·7	80 2
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga .	29·656	29·825	+·034	Variable	130	99·4	8th April	72·3	11th „	96 1	74·0	85 1	+3·2	80·6
	Chumparun	Motihari ...	29·613	29·843	+·078	Variable	197	102 8	6th „	62 8	10th „	98·9	65·5	82·2	+1·6	81·3
	Sarun	Chupra ..	29·643*	29·839*	+·081	Westerly	131·5*	104 5*	6 h „	70 2*	12th „	102·3	71·6	87·5	+5 1	85·9
South Behar.	Shahabad	Dehree ..	29 474	29 828	+·076	W & SW	179 0	108 4	7th „	74·0	11th „	103 7	76·9	90·3	+6·0	85·6
		Buxar ..	29·589	29 833	+·068	SW	131 4	105 4	7th „	71·8	10th „	101·6	74 1	87·9	+4 0	83·6
		Arrah ..	29·624	29·823	+·068	South-Westerly	41·4	105·8	7th „	68 5	11th „	101·4	72·1	83 8	+3·0	82 8
	Gya	Gya ..	29·473	29·853	+·051	Variable	173 0	108 1	7th „	68 2	11th „	103·2	75 7	89 5	+1 5	84·1
	Patna	Bankipore ..	29 634	29 818	+·030	S & W	77·4	106 4	7th „	70 4	10th „	102 0	72 9	87·6	+1·8	82 8
	South Bhagulpore .., Monghyr	Bhagulpore ...	29·654	29·817	+·047	S & SW	83	104 8	8th „	68·0	11th „	100 7	72·2	86·5	+3·7	81·5
	Sonthal Pergunnahs ...	Doomka ...	29·336	29 833	+·043	South-Westerly	87 3	107 4	7th „	68·7	10th „	101 4	73 7	87·6	+2·1	85·1
Chota Nagpore.	Hazaribagh	Hazaribagh ..	27·854	29 854	+ 038	South-Westerly	222·7	103·1	7th „	66·7	11th „	96 4	71·9	84·2	+1·0	80·6
	Lohardugga ... ..., Manbhoom	Ranchee ...	27·739	29·857	+·065	Calm	101·6	101 9	7th „	66 0	11th „	96 5	71·3	83 9	+2·5	80·1
	Singbhoom*	Chyebassa ...	29·089	29·855	+·056	South-Westerly	77·0	107·6	8th „	69·4	11th „	103 0	73·4	88 2	+0·2	83·0

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past all stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least undredth of an inch fell.

for the week ending Friday, the 12th of April 1889.

DISTRICT OBSERVATIONS.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
90	3·1	Nil	0·03	0·37	0·03	0·45	−0·42	44·80	57·77	−12·97	0·3	0·6	Pooree	Pooree	Orissa.
81	0·4	Nil											Gopalpore		
86	5·6	Nil											False Point		
70	3·1	Nil	Nil	0·14	Nil	0·28	−0·28	53·14	54·21	−1·07	0·0	0·5	Cuttack	Cuttack	
80	1·7	2·09	0·45	0·34	0·45	0·48	−0·03	55·16	56·15	−0·99	0·3	0·7	Balasore	Balasore	
79	4·0	Nil	0·42	0·28	0·42	0·28	+0·14	57·17	65·82	−8·65	0·7	0·5	Saugor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
68	1·0	0·87	0·93	0·28	0·93	0·29	+0·64	66·20	54·48	+11·72	2·7	0·5	Midnapore	Midnapore	
75	4·4	1·16	0·98	0·26	0·98	0·47	+0·51	66·08	54·89	+11·19	2·3	0·6	Calcutta	24-Pergunnahs Howrah Hooghly	
62	3·9	1·01	0·80	0·23	0·80	0·42	+0·38	57·72	49·55	+8·17	2·3	0·5	Burdwan	Burdwan	
54	2·3	1·04	1·17	0·16	1·17	0·20	+0·97	55·19	54·30	+0·89	2·3	0·4	Bankoora	Bankoora	
42	2·7	0·10	0·09	0·17	0·09	0·24	−0·15	59·77	53·47	+6·30	1·5	0·4	Raneegunge	Beerbhoom West Burdwan	
65	3·6	Nil	0·08	0·18	0·08	0·35	−0·27	50·04	52·61	−2·57	0·6	0·4	Berhampore	Moorshedabad	
67	2·1	0·51	0·92	0·51	0·92	0·80	+0·12	57·15	52·77	+4·38	1·6	0·6	Krishnaghur	Nuddea	
82	4·6	0·77	0·60	0·53	0·60	0·75	−1·15	46·45	57·32	−10·87	2·0	0·7	Jessore	Jessore Khoolna	
73	3·1	Nil	Nil	0·44	Nil	0·56	−0·56	127·04	117·15	+9·89	0·0	0·7	Chittagong	Chittagong	East Bengal.
			Nil	0·87	0·05	1·28	−1·23	74·46	86·58	−12·12	0·0	1·3	Demagiri	Chittagong Hill Tracts	
81	2·6	1·62	0·49	0·51	0·48	0·63	−0·14	74·67	80·88	−6·21	1·8	0·8	Barrisal	Backergunge	
77	1·0	0·10	0·23	1·19	0·66	1·50	−0·84	111·21	113·51	−2·30	1·0	1·5	Noakholly	Noakholly	
74	0·7	0·38	0·31	0·67	0·45	[illegible]	−0·63	49·14	60·91	−11·77	0·7	1·2	Furreedpore	Furreedpore	
75	4·7	0·06	[illegible]	0·90	0·49	1·29	−0·80	57·27	65·53	−8·26	1·5	1·5	Dacca	Dacca	
83	2·4	1·90	0·48	1·16	0·62	1·55	−0·93	63·92	76·04	−12·12	1·8	1·6	Commillah	Tipperah	
76	3·1	Drops	0·05	0·54	0·29	0·85	−0·56	67·83	71·34	−3·51	0·2	1·1	Mymensingh	Mymensingh	
69	2·3	Drops	0·02	0·26	0·02	0·35	−0·33	46·49	59·49	−13·00	0·2	0·5	Bogra	Bogra	North Bengal.
73	2·6	0·09	0·07	0·54	0·07	0·89	−0·82	42·56	56·85	−14·29	1·0	0·8	Serajgunge	Pubna	
63	2·1	0·09	0·09	0·25	0·09	0·44	−0·35	48·03	56·10	−8·07	1·5	0·5	Rampore-Beauleah	Rajshahye	
62	2·0	Nil	Nil	0·16	Nil	0·20	−0·20	43·85	55·59	−11·74	0·0	0·4	Maldah	Maldah	
61	1·0	Nil	Nil	0·11	Nil	0·13	−0·13	49·53	58·73	−9·20	0·0	0·3	Dinagepore	Dinagepore	
71	1·1	Nil	Nil	0·41	Nil	0·69	−0·69	59·40	76·41	−17·01	0·0	1·0	Rungpore	Rungpore	
69	2·9	Nil	Nil	0·31	Nil	0·81	−0·81	90·34	114·26	−23·92	0·0	0·8	Julpigoree	Julpigoree Cooch Behar	
56	2·0	0·30	0·27	0·70	0·27	1·13	−0·86	105·44	125·27	−19·83	1·0	1·6	Darjeeling	Darjeeling Hill Tracts	
60	1·4	Nil	Nil	0·14	Nil	0·21	−0·21	51·29	59·86	−8·57	0·0	0·4	Purneah	Purneah North Bhagulpore	North Behar.
			Nil	0·08	Nil	0·07	−0·07	44·01	44·51	−0·50	0·0	0·2	Mozufferpore	Mozufferpore	
44	0·4	Nil	Nil	0·05	Nil	0·07	−0·07	43·20	45·50	−2·30	0·0	0·2	Durbhunga	Durbhunga	
40	5·0	Nil	Nil	0·07	Nil	0·14	−0·14	44·81	47·72	−2·91	0·0	0·2	Motihari	Chumparun	
48	2·3	Nil	Nil	0·04	Nil	0·05	−0·05	41·68	43·66	−1·98	0·0	0·2	Chupra	Sarun	
31	1·0	Nil											Dehree		South Behar.
33	2·7	Drops	Nil	0·08	Nil	0·10	−0·10	44·42	40·93	+3·49	0·0	0·3	Buxar	Shahabad	
39	2·9	0·01											Arrah		
61	3·3	Drops	0·02	0·06	0·02	0·13	−0·11	52·89	42·58	+10·31	0·3	0·2	Gya	Gya	
34	4·3	Nil	Nil	0·03	Nil	0·06	−0·06	51·21	42·11	+9·10	0·0	0·3	Bankipore	Patna	
46	2·7	Nil	Nil	0·12	Nil	0·16	−0·16	52·38	44·25	+8·13	0·0	0·3	Bhagulpore	South Bhagulpore Monghyr	
41	0·7	0·59	0·24	0·16	0·24	0·20	+0·04	55·62	52·03	+3·59	1·0	0·3	Doomka	Sonthal Pergunnahs	
38	5·3	0·42	0·63	0·05	0·63	0·07	+0·56	59·22	51·96	+7·26	2·7	0·2	Hazaribagh	Hazaribagh	Chota Nagpore.
52	3·9	0·47	0·49	0·09	0·49	0·15	+0·34	53·79	50·68	+3·11	2·0	0·4	Ranchi	Lohardugga	
			0·68	0·17	0·68	0·25	+0·43	48·80	48·90	−0·10	2·5	0·5		Manbhoom	
51	1·1	1·11	1·10	0·11	1·10	0·17	+0·93	42·40	53·77	−11·37	2·0	0·5	Chyebassa	Singbhoom	

he variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
enoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 12th of April 1889.

Meteorological division.	District.	Station.	Saturday, 6th April 1889.	Sunday, 7th April.	Monday, 8th April.	Tuesday, 9th April.	Wednesday, 10th April.	Thursday, 11th April.	Friday, 12th April.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			RAINFALL.							TOTAL					
ORISSA ...	Pooree ...	Pooree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·18	41·84	59·31
		Khurdah ...	......	......	......	......	......	......	0·10	1	0·10	0·10	0·17	44·65	58·10
		Banpur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·17	37·00	51·65
		False Point ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·31	56·28	67·87
		Gop ...											?		?
		Pipli ...											?		?
	Cuttack	Jagatsingpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	58·64	46·60
		Banki ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·22	45·[illegible]	53·16
		Cuttack ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	53·04	58·62
		Kendrapara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	46·60	55·25
		Jajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·51	62·40	56·94
		Dharmsala ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·73	?
		Salipore ...											?		?
	Balasore ...	Chandbali ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	58·15	54·78
		Bhuddruck ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·74	51·00	55·18
		Sorah ...	......	......	......	......	1·20	......	......	1	1·20	1·20	0·53	55·09	54·03
		Balasore ...	......	......	......	......	1·51	......	......	1	1·51	1·51	0·61	59·20	61·06
		Jellasore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·37	56·39	55·21
		Baripodah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·21	56·15	56·00
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·24	52·64	63·87
		Saugor Island	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	55·60	69·74
		Tumlook ...	......	......	......	0·20	......	0·50	......	2	0·70	0·70	0·28	67·90	54·46
		Midnapore ...	......	......	......	0·50	......	0·57	0·10	3	1·17	1·17	0·24	71·39	51·40
		Ghattal ...	......	......	......	0·16	0·21	0·54	......	3	0·91	0·91	0·36	59·30	57·41
		Kukrahaty ...	......	......	......	......	0·24	0·85	......	2	1·09	1·09	?	68·60	?
		Heria ...	......	......	......	......	......	0·12	......	1	0·12	0·12	?	54·08	?
		Bhagwanpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56·18	?
		Garbetta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour ...	......	......	......	0·07	......	1·20	......	2	1·27	1·27	0·40	60·27	69·07
		Canning Town	......	......	......	0·09	......	0·96	......	2	1·05	1·05	?	58·65	?
		Alipore Jail ..	......	......	......	0·11	0·06	1·06	......	3	1·23	1·23	0·47	67·21	50·18
		Barrackpore...	......	......	......	......	0·53	0·30	......	2	0·83	0·83	0·46	64·32	51·68
		Dum-Dum ...	......	......	......	......	0·08	0·58	......	2	0·66	0·66	0·42	68·28	54·82
		Baraset ...	......	......	......	......	0·10	0·30	......	2	0·40	0·40	0·37	68·24	52·49
		Busserhat ...	......	......	......	......	......	0·62	......	1	0·62	0·62	0·38	58·95	57·99
	Howrah ...	Howrah ...	......	......	......	0·01	0·02	1·15	......	3	1·18	1·18	0·72	70·[illegible]	55·59
		Mohesreka (*Ooloberiah.*)	......	......	......	......	......	0·89	......	1	0·89	0·89	0·31	63·85	54·91
	Hooghly ..	Serampore ...	......	......	......	0·03	0·41	0·44	......	3	0·88	0·88	0·54	69·80	53·19
		Hooghly ...	......	......	......	0·04	0·02	1·56	......	3	1·62	1·62	0·59	69·73	51·23
		Jehanabad ...	......	......	......	0·15	0·85	0·45	......	3	1·45	1·45	0·47	64·80	57·90
	Burdwan ...	Culna ...	......	......	......	......	0·84	0·20	......	2	1·04	1·04	0·38	62·72	47·05
		Burdwan ...	......	......	......	0·10	0·62	0·29	......	3	1·01	1·01	0·36	48·38	50·58
		Cutwa ...	......	......	......	0·16	......	0·18	......	2	0·34	0·34	0·51	62·05	50·69
		Raneegunge ...	......	......	......	......	0·04	0·06	......	2	0·10	0·10	0·20	59·42	50·51
		Munbur ...	......	......	......	......	0·42	......	......	1	0·42	0·42	?	45·22	?
	Bankoora ...	Bankoora ...	......	......	......	0·98	0·03	0·43	......	3	1·44	1·44	0·75	51·50	53·77
		Bishenpore ...	......	......	......	......	0·81	0·24	......	2	1·05	1·05	0·33	58·38	53·87
		Mallara ...	......	......	......	0·22	......	0·18	......	2	0·40	0·40	0·05	52·35	53·24
		Khatra ...	......	......	......	0·68	......	1·10	......	2	1·78	1·78	0·08	58·47	56·06
		Indas ...	......	......	......	......	0·75	0·93	......	2	1·68	1·68	?	43·89	?
		Kotalpore ...	......	......	......	......	0·44	0·76	......	2	1·20	1·20	?	51·38	?
		Anda ...	......	......	......	[illegible]	0·10	......	......	2	0·25	0·25	?	39·76	?
		Gangajalghati	......	......	......	......	......	0·25	......	1	0·25	0·25	?	58·51	?
		Raipore ...	......	......	......	......	......	0·56	0·30	2	0·86	0·86	?	57·21	?
		Sonamukhi ...	......	......	......	1·19	0·19	0·15	......	3	1·53	1·53	?	49·45	?
	Beerbhoom ..	Mh. Soory ...	......	......	......	0·01	......	0·01	0·01	3	0·03	0·03	0·19	56·10	55·51
		Hetampore ...	......	......	......	0·12	......	......	......	1	0·12	0·12	0·25	49·94	56·93
		Rampore Haut	......	......	......	......	......	0·11	......	1	0·11	0·11	0·34	73·58	53·24
		Bolpore ...	......	......	......	......	......	......	0·18	1	0·18	0·18	?	64·40	?
		Murarai ...	......	......	......	......	......	......	......	Nil	Nil		?		?
	Nuddea ...	Ranaghat ...	......	......	......	0·14	0·49	0·29	......	3	0·92	0·92	0·82	66·07	50·45
		Kishnaghur ...	......	......	......	0·48	......	0·03	......	2	0·51	0·51	0·72	70·88	46·99
		Chooadanga ...	......	......	......	......	......	0·30	......	1	0·30	0·30	0·69	55·22	54·70
		Meherpore ...	......	......	......	......	2·40	......	0·49	2	2·89	2·89	0·78	56·02	51·46
		Kooshtea ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·89	37·56	58·26
	Khoolna ...	Satkhira ...	......	......	......	......	0·18	0·56	......	2	0·74	0·74	0·67	48·38	59·24
		Bagirhat ...	......	......	......	......	0·62	0·15	......	2	0·77	0·77	0·74	52·78	65·40
		Khoolna ...	......	......	......	......	0·10	0·59	......	2	0·69	0·69	0·48	50·53	58·69
	Jessore ...	Narail ...	......	......	......	......	0·54	0·16	......	1	0·70	0·70	0·65	33·25	49·87
		Jessore ...	......	......	......	......	0·63	0·14	......	2	0·77	0·77	0·91	58·98	55·85
		Jhenidah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·13	37·09	57·94
		Magoorah ...	......	......	......	0·02	0·07	0·01	0·21	4	0·31	0·31	0·77	44·81	53·66
		Bongong ...	......	......	......	......	0·47	0·35	......	2	0·82	0·82	0·68	51·74	55·33
	Moorshedabad	Kandi ...	......	......	......	......	......	0·10	......	1	0·10	0·10	0·36	53·50	52·22
		Berhampore...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·42	43·61	53·30
		Lalbagh ...	......	......	......	......	......	0·03	......	1	0·03	0·03	0·12	49·14	55·67
		Azimgunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·42	?	53·24
		Jungipore ...	......	......	......	0·07	0·27	......	......	2	0·34	0·34	0·42	49·85	50·89
		Lalgola ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	64·29	53·15
		Jiagunge ...	......	......	......	0·02	......	0·30	......	2	0·32	0·32	?	49·72	?
		Akhriganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·08	?
		Patkabari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	44·39	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·52	147·50	136·61
		Chittagong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·59	100·56	97·77
		Kutubdia ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	117·82	?
		Sathanya ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	92·32	?
	Chittagong Hill Tracts.	Rangamati ...	......	......	......	......	......	......	......	Nil	Nil	0·17	1·21	77·21	89·82
		Ruma ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·34	71·69	88·12
	Backergunge	Patuakhally ..	......	......	......	......	......	0·45	......	1	0·45	0·45	0·89	89·07	90·[illegible]
		Perozepore ..	......	......	......	......	0·19	0·48	......	2	0·67	0·67	0·46	63·25	73·[illegible]
		Burrisal ...	......	......	......	......	0·37	0·15	......	2	0·52	0·52	1·06	68·74	[illegible]
		Bhola ...	......	......	......	......	0·13	0·19	......	2	0·32	0·32	0·63	77·68	85·40

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 12th of April 1889—*contd.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 6th April.	Sunday, 7th April.	Monday, 8th April.	Tuesday, 9th April.	Wednesday, 10th April.	Thursday, 11th April.	Friday, 12th April.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of Month.	Average total rainfall from 1st of Month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—*concld.*		*Gournaddi* ...	......	......	......	......	0·70	0·41	......	2	1·11	1·11	?	52 94	?
		Bauphal ...	......	......	......	......	......	0·69	......	1	0·69	1·09	?	100 86	?
	Noakholly	Noakholly ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·41	111·66	113·67
		Fenny ...	......	......	......	......	0·20	0·25	......	2	0·45	1·30	1·59	110·73	113·29
		Harishpore ...											?		?
		Ramganj ...	......	......	......		......	0·31	0·18	2	0·49	0·82	?	91·43	?
	Furreedpore	Madaripore ...	......	......	......	......	......	......	0·70	1	0·70	0·70	1·00	47·73	60·66
		Furreedpore ...	......	......	......	......	......	0·24	......	1	0·24	0·67	0 96	54 36	61·57
		Goalundo ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·82	45·36	57·27
	Dacca ...	Munshigunge	......	......	......	0·70	0·05	0·50	0·06	4	1·31	1·31	1·67	68·09	77·23
		Dacca ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·33	53·80	63 87
		Naraingunge	......	......	......	......	0 02	0·61	......	2	0·63	0·69	1·08	64·59	65·59
		Manickgunge	......	......	......	......	......	......	......	Nil	Nil	Nil	1·10	47·63	54·28
		Joydebpore ..	......	......	......	......	......	0·17	......	1	0·17	0·17	?	50·67	?
	Hill Tipperah	Agartola ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·50	54·42	68 68
	Tipperah ...	Comilla ...	......	......	......	0·65	0·04	0·85	0·07	4	1·61	2·10	1·84	72·27	82 40
		Chandpore ...	......	......	......	......	0·20	......	......	1	0·20	0·20	2·20	50 37	83 55
		Brahmunberia	......	......	......	......	......	0·09	0·03	2	0·12	0·18	1·57	70 43	68·84
		Ramchandrapore.	......	......	......	0·03	......	0·72	......	2	0·75	0·78	?	61 64	?
		Nasirnagar ...	......	......	......	......	0·50	......	0·58	2	1·08	1·18	?	60·47	?
		Daudkandi ...											?		?
		Kasba ...	......	......	......	......	......	0·08	......	1	0·08	0·08	?	57·17	?
		Laksham ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	81·41	?
	Mymensingh..	Kishoregunge	......	......	......	......	......	0·19	......	1	0·19	1·38	1·41	84·01	75 37
		Atia (*Tangail*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0 78	80 12	58·83
		Mymensingh	......	......	......	......	......	......	......	Nil	Nil	Nil	1 04	70·07	78 17
		Jamalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 65	61·98	68·30
		Netrokona ...	......	......	......	......	......	......	0·07	1	0·07	0·07	0·35	70 04	75 63
		Subornakhally	......	......	......	......	......	......	......	Nil	Nil	Nil	?	62·17	?
		Durgapore ...	......	......	......	......	......	......	0·96	1	0 96	0·96	?	110·97	?
		Sherepore town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Dewanganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·76	?
NORTH BENGAL.	Pubna	Pubna ...	......	......	......	......	......	......	0·05	1	0·05	0·05	0 96	40·92	57 60
		Seraigunge ...	......	......	......	......	......	0·09	......	1	0·09	0·09	0 81	44 18	55 95
	Bogra	Sherpore ...	......	......	......	......	......	0·07	......	1	0·07	0·07	0·18	49·80	60·36
		Nowkhilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 39	51 87	57·12
		Bogra ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 71	45·31	62 99
		Panchbibi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 12	46 99	57·31
	Rajshahye	Beauleah ...	......	......	......	0·02	......	0·03	......	2	0·05	0·05	0 33	33 07	54 94
		Nattore .	......	......	......	......	......	0·13	......	1	0 13	0·13	0 53	62·11	57 29
		Naogaon .	......	......	......	......	......	0 03	......	1	0 03	0·03	?	39 03	?
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40 03	?
		Manda ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	83 84	?
	Maldah ...	Maldah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0 20	51·85	53·15
		Chanchal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	35·79	57·94
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40 51	?
		Sibganj ...	......	......	......	......	0·32	......	......	1	0·32	0·32	?	49·10	?
	Dinagepore ...	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·01	41·24	59·78
		Churamon ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·02	50 79	54·06
		Raigunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·21	58 50	60·64
		Dinagepore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	59 79	65 88
		Baloorghat	......	......	......	......	......	......	......	Nil	Nil	Nil	0 02	42 13	54·35
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·22	?
	Rungpore ...	Bhawanigunge (*Gyebanda*).	......	......	......	......	......	......	......	Nil	Nil	Nil	0·65	48·55	64·27
		Rungpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·67	55·70	76 97
		Kurigram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·02	76 76	76 81
		Baredogra (*Nilphamari*).	......	......	......	......	......	......	......	Nil	Nil	Nil	0 41	56·48	87 31
		Ulipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·33	?
	Julpigoree ...	Julpigoree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·86	107 10	120 64
		Alipore Door	......	0·80	......	......	......	......	......	1	0·80	0·80	?	86 38	?
		Falacotta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	93 02	?
		Debiganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	64·28	?
		Bhagatpore (*Nagrakatta*).	......	0·48	......	......	......	......	......	1	0·48	0·48	?	?	?
	Cooch Behar..	Dinhatta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·58	93·61	95 80
		Cooch Behar...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·54	94 58	122·29
		Mekligunge...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 33	79 07	110 37
		Matabhanga...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·75	77 32	120·31
	Darjeeling Hill.	Buxa ..	......	0·70	......	......	......	......	......	1	0·70	0·70	2·21	107·24	190 07
		Silliguri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·44	86 71	105 93
		Darjeeling ...	......	0·12	......	......	......	0·18	0·06	3	0·36	0·36	1 37	93 42	[illegible]
		Kalimpong ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	74·30	[illegible] 44
NORTH BEHAR	Purneah ...	Kissengunge...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	49·53	71·73
		Arrareah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	53·47	65·15
		Purneah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·32	46·85	62 66
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Manari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Kaliaganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	59 67	?
	North Bhagulpore.	Maddapore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	61 06	50·76
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·22	45 53	49 33
		Pretabganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·14	?
	Durbhunga	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·06	46·10	48·89
		Durbhunga ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·06	39·21	46·74
		Madhubani ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	44 32	46·09
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55 51	?
		Roshera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	47 09	?
	Mozufferpore	Sitamarhi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	36 51	44·26
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·04	46 10	46·62
		Hajipore ...	......	......	......	0·01	......	......	......	1	0·01	0·01	0·04	49·42	48 91
		Paru ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40 00	?
		Mahua ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·29	?
		Sirhar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·94	?
		Pupri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	25·56	?
	Chumparun...	Motihari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·15	40 93	45·83
		Bettiah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 13	49·34	49 06
		Bagaha ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56·22	?
		Burhurwa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43·17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 12th of April 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 6th April 1889.	Sunday, 7th April.	Monday, 8th April.	Tuesday, 9th April.	Wednesday, 10th April.	Thursday, 11th April.	Friday, 12th April.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 18th May 1888.	Average rainfall from 18th May to date.
NORTH BEHAR —*concluded*.	Sarun	Gopalgunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	41·34	44·60
		Sewan ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·08	44·44	44·72
		Chuprah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	39·25	41·51
SOUTH BEHAR	Shahabad	Buxar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·09	43·33	39·38
		Dehree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	46·13	
		Bhubooah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	42·22	42·56
		Sasseram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	44·11	41·53
		Arrah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	46·34	41·18
		Mohaniah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	36·29	?
	Gya ..	Aurungabad ...	......	......	......	......	0·07	......	......	1	0·07	0·07	0·09	55·21	48·71
		Gya ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·08	56·01	43·58
		Nowadah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	51·18	41·18
		Jehanabad ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·1[illegible]	49·12	41·63
		Arwal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·68	?
		Daudnagar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43·15	?
		Sherghati ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	35·35	?
		Rajauli ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	28·58	?
		Pahri Sarawan ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	38·91	?
	Patna ..	Patna ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·04	43·51	42·73
		Dinapore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·06	45·24	42·12
		Behar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	56·52	42·98
		Barh ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·03	59·61	40·61
		Bickram ...	......	......	......	......	......	......	......	Nil	Nil	Nil		41·05	?
		Hilsa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·16	?
	Monghyr	Begooserai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·07	51·73	41·04
		Monghyr .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·16	56·93	47·50
		Jamui ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·13	52·50	44·29
		Gogri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	64·76	?
		Sheikhpura ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·25	56·73	45·25
		Banka ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·18	44·01	45·59
		Kolgong ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·84	?
	Sonthal Pergunnahs	Rajmehal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	48·72	52·81
		Godda ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	52·17	46·24
		Pakour ...	......	......	......	0·04	0·45	......	......	2	0·49	0·49	0·16	65·66	56·36
		Nya Doomka	......	......	......	0·16	......	0·41	0·02	3	0·59	0·59	0·45	55·21	55·09
		Deoghur .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·21	54·00	51·60
		Jamtara ..	......	......	......	0·34	......	......	......	1	0·34	0·34	0·08	57·93	49·40
		Mohagama ...	......	......	......	......	......	......	......	Nil	Nil	Nil		?	?
		Nonihat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	29·74	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	......	......	......	0·34	0·01	......	......	2	0·35	0·35	0·12	58·86	48·91
		Hazaribagh ..	......	......	......	0·33	0·07	0·02	......	3	0·42	0·42	0·13	57·38	49·58
		Semtagurgh ..	......	......	......	0·45	0·43	0·23	......	3	1·11	1·11	0·05	57·89	47·60
		Mahudi Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	55·57	49·57
		Jhoomra Hills	......	......	......	......	......	......	......	Nil	Nil	Nil	Nil	64·90	63·64
		Barhi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·49	?
		Chatra .	......	......	......	0·15	0·03	......	......	2	0·18	0·18	?	58·40	?
		Karagdeha ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·60	?
		Ramghar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
	Lohardugga ...	Lohardugga ...	......	......	......	......	0·60	0·16	......	2	0·76	0·76	0·11	50·10	53·66
		Ranchi ...	......	......	......	0·18	0·‥5	0·10	......	3	0·63	0·63	0·21	54·57	54·54
		Palamow ..	......	......	......	......	0·08	......	......	1	0·08	0·08	0·12	53·68	44·61
		Billi ...	......	......	......	......	0·40	......	......	1	0·40	0·40	?	?	?
		Balumat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Hossainabad ...	......	......	......	......	0·23	......	......	1	0·23	0·23	?	?	?
		Gurwah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46·08	?
	Singbhoom .	Chyebassa .	......	......	......	0·68	......	0·42	......	2	1·10	1·10	0·17	42·40	53·92
		Chakradharpore.	......	......	......	0·47	......	0·38	......	2	0·85	0·85	?	56·52	?
		Ghatsilla ...	......	......	......	......	......	0·94	......	1	0·94	0·94	?	56·13	?
		Baharagura..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	63·32	?
	Manbhoom ...	Purulia ...	......	......	......	1·06	0·04	0·10	......	3	1·20	1·20	0·19	59·45	51·22
		Gobindpore ...	......	......	......	0·03	......	0·08	......	2	0·11	0·11	0·27	38·31	46·68
		Raghunathpore.	......	......	......	......	0·02	0·02	......	2	0·04	0·04	?	55·87	?
		Barrabhoom...	......	......	......	......	......	1·33	......	1	1·33	1·33	?	53·65	?
		Jhalda ...													
		Chas ...													

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 16*th April* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 12TH APRIL 1889.

THE week began with fine weather everywhere, temperature was high, and pressure above the normal. Pressure had been rising, but on the first day of the week a fall set in, at first slowly in the north-west districts, but afterwards more rapidly all over the province. Gradients became steep at the head of the Bay, and strong southerly winds began to blow at the coast stations. On Sunday pressure was considerably below the normal everywhere, but weather continued generally fine, and a few showers fell in the hill districts only. On Monday a few light local showers fell in North Bengal, and though pressure continued to fall, the first signs of an increase were shown in the extreme west of Behar. This rise was general on the following day; the strong current which had been blowing on the coast was consequently checked, and storms began in Chutia Nagpur, South-West and East Bengal. The amount of rain was generally small, and rarely exceeded half an inch. On Wednesday and Thursday, the two following days, these storms continued, and were most general on the latter, following one another after a few hours' interval. While the weather was stormy in these districts, very little rain fell in North Bengal, and it was almost entirely absent from Behar. Temperature fell rapidly during these days, and the mean was, in some cases, largely in defect; but the variations from the mean were necessarily irregular. On Friday there was a general fall of pressure, scarcely any rain fell, and weather generally improved.

Pressure.—At the beginning of the week pressure was in excess, but the fall which then commenced quickly reduced the excess, and on Sunday a defect everywhere existed, amounting in some cases to ·05″. The fall continued for the first three days of the week On Tuesday a rise set in and lasted till Thursday, after which pressure again fell. There was defective pressure only on Sunday and Monday. The mean pressure for the whole week has been everywhere in excess, the largest variation being in Behar and amounting to ·08″. With the exception of the fall on Sunday, and a somewhat rapid rise at a few stations on Tuesday and Wednesday, pressure changes have been generally small.

Temperature.—Temperature was generally high in the early part of the week, but with the commencement of stormy weather large local falls began. On Tuesday and Wednesday several stations reported falls exceeding 7°. At Balasore, on Wednesday, there was a fall of over 10°. Temperature for the week has been in excess in all districts, the largest having been in Behar and North Bengal. The excess for Behar has been a little over 3°; in East Bengal and North Bengal very nearly 3°; in Chutia Nagpur 1·7°; in Orissa 0·6°; and in South-West Bengal 0·9°.

The accompanying table shows the average maximum, minimum and mean temperatures for the week at nine typical stations in the province, as compared with the normal values for the same period:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending Friday, the 12th April 1889.

	Normal mean maximum temperature for the week ending 12th April.	Actual mean maximum temperature for the week ending 12th April.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 12th April.	Actual mean minimum temperature for the week ending 12th April	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 12th April.	Actual mean daily temperature for the week ending 12th April.	Variation of actual mean from the normal.
Cuttack	101·2	102·0	+0·8	76 7	77 3	+0 6	88·9	89·7	+0·8
Calcutta	94 7	95 4	+0 7	74 9	73 3	−1·6	84 8	84·3	− 0·5
Dacca	92·9	98·4	+5·5	73·1	73 9	+0·8	83·0	86·1	+3 1
Burdwan	100·0	101·2	+1·2	74 6	73·6	−1 0	87·3	87·4	+0·1
Patna	100·4	102·0	+1 6	71·1	72 9	+1 8	85 8	87·6	+1 8
Gya	102 2	103 2	+1 0	73·7	75 7	+2 0	88 0	89 5	+1·5
Purneah	96 6	100 6	+4 0	68 2	69 5	+1·3	82·4	85·1	+2 7
Hazaribagh	96·3	96 4	+0 1	70 0	71 9	+1 9	83 2	84·2	+1·0
Darjeeling	60·4	65 2	+4 8	45 3	49 5	+4 2	52·8	57·4	+4·6

Rainfall.—A few showers fell in North Bengal on Sunday, and thunderstorms with rain were general in Chutia Nagpur and South-West and East Bengal during Tuesday, Wednesday and Thursday. In some cases fairly heavy falls occurred, the largest being 1·5″ at Balasore on Wednesday. Very little rain fell in Behar, North Bengal, and Orissa. In North Behar rain was entirely absent. South-West Bengal and Chutia Nagpur received an average amount of about two-thirds of an inch of rain which is considerably in excess of the normal; in all other districts the amounts are in defect.

The following table gives the summary of the temperature and rainfall data of each of the seven meterological divisions of the Province for the week ending Friday, the 12th April 1889 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	107 9	64·7	92·4	77·3	84·9	+0·6	0·18	0·28	—0·10	0·1	0·7	—0·6	0·18	0·41	52·01	55·90
South-West Bengal ...	109 5	65 2	99·8	74·4	87·1	+0·9	0·68	0·30	+0·38	1·8	0·7	+1·1	0·68	0·47	57·81	54·97
East Bengal	104 0	66·4	94·7	73·5	84·1	+2·7	0·30	0·78	—0·48	1·2	1·3	—0 1	0·42	1·06	72·82	79·25
North Bengal	107 0	57·9	98·6	69·0	83·8	+2·8	0·02	0·28	—0·26	0 2	0·7	—0·5	0·02	0·50	56·68	72·73
North Behar	104·5	62·8	99·5	70·4	85·0	+3·1	Nil	0·07	—0·07	0·0	0·3	—0·3	Nil	0·12	45·70	49·79
South Behar	108·4	65 0	102·0	73·9	88·0	+3·2	0·06	0·10	—0·04	0·3	0·3	0	0 06	0·13	51·73	44·84
Chutia Nagpur	103·1*	66·0*	96·4*	71·6*	84·0*	+1·7*	0·61	0·09	+0·52	2·4	0·4	+2·0	0·61	0·13	52·80	51·21

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 16*th April* 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th April 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
April ...	7th ...	29·785	88·2	100·0	23·7	76·3	92·6	73·4	·565	62·4	37	Nil
" ...	8th ...	·812	87·1	97·0	19·8	77·2	88·6	78·5	·840	74·0	63	"
" ...	9th ...	·859	83·9	91·6	15·4	76·2	87·4	78 5	·855	74·5	66	"
" ...	10th ...	·917	81·4	93·0	23·2	69·8	81·4	78·3	·929	77·0	87	0·22
" ...	11th ...	·923	80 4	93·0	25·3	67·7	85·6	76 5	·791	72·2	65	1·44
" ...	12th ...	·851	86·1	98·6	25·0	73·6	88·1	79·7	·901	76·1	68	0·01
" ...	13th ...	·830	85·4	97·0	23·2	73·8	88·1	74·5	·672	67·4	51	Nil

		Inches.
The mean 10 A.M. pressure of the seven days	... ...	29·854
		°
The mean temperature of the seven days	... ...	84·6
The extreme variation of temperature	... ...	32·3
The maximum temperature	... ...	100·0
		%
The mean 10 A.M. relative humidity of the seven days	... ...	62
		Inches.
The total fall of rain from 7th to 13th April 1889	... ...	1·67

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 15*th April* 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

DURING the week ending 30th March 1889, the returns of the principal Municipalities in Bengal presented the following results :—

1. The ratios per *mille* of births and deaths for the period above referred to stood at—for births 22·5 as opposed to 21·9 during the preceding week ending 23rd March, and for deaths at 24·5 against the same ratio.

2. The following Municipalities registered the highest proportions of births and deaths :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Burdwan	71·7	Purneah	152·4
Jessore	61·2	Jessore	67·3
Durbhanga	50·4	Burdwan	61·0
Rampore Beauleah	47·3	Naraingaj	49·7
Naraingaj	45·5	Puri	48·3
Monghyr	42·5	Gya	43·0
Bali	38·6	Kishnaghur	30·3
Comillah	30·8		

3. The mortality from the diseases specified below exhibits no noticeable difference in comparison with the mortality of the preceding week :—

	Ratio per *mille* during the weeks ending— 30th March 1889.	23rd March 1889.
Cholera	5·8	5·8
Small-pox	·2	·4
Fever	8·2	8·2
Bowel-complaints	2·9	2·3
Injury	·2	·2
Other causes	7·2	7·6

4. Of the diseases abovenamed, cholera, fever and the maladies coming under the head of "Other causes" proved conspicuously fatal in the following Municipalities, and bowel-complaints only in the Purneah town, where the rate of deaths from this cause stood at 20·8 per 1,000 of population :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Purneah ...	117·7	Jessore ...	55·1	Gya ...	17·8
Naraingaj ...	24·8	Burdwan ...	35·1	Puri ...	16·8
Puri ...	21·0	Bali ...	24·6	Midnapore ...	15·5
Gya ...	11·6			Burdwan ...	12·2
Rampore Beauleah ...	10·5			Kishnaghur ...	11·4
Suburbs of Calcutta...	7·4			Bhagulpore ...	10·9
Dacca ...	7·1				
Burdwan ...	6·1				
Howrah ...	4·6				
Patna	2·6				

It will be observed that cholera continued to prevail with increased severity in the Purneah town.

5. The mortality according to *Sex, Class* and *Age* stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	27·1	Christians	30·4	Under 1 year ...	174·9
Females	21·6	Hindus	23·9	1 and under 5 years ...	30·8
Ratio of male deaths to every 100 female deaths	142	Mahomedans ...	26·0	5 " 10 " ...	9·9
				10 " 15 " ...	9·5
				15 " 20 " ...	20·9
				20 " 30 " ...	15·0
				30 " 40 " ...	22·3
				40 " 50 " ...	18·2
				50 " 60 " ...	30·6
				60 years and upwards ...	53·0

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 16*th April* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 30th March 1889.

1	2	3			4			5			6
Districts.	Names of Municipalities.	Population.			Births. Number of—			Births. Ratio per 1,000 of population per annum.			Ratio of male births to every 100 female births.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
Burdwan	Burdwan	18,063	16,017	34,080	26	21	47	39·7	32·0	71·7	123
Midnapore... ...	Midnapore	16,927	16,633	33,560	8	4	12	12·4	6·2	18·6	200
Hughli	Hughli and Chinsurah ..	19,179	19,539	38,718	6	2	8	8·0	2·7	10·7	300
Serampore ...	Serampore	13,559	12,937	26,496	9	5	14	17·7	9·8	27·5	180
	Utterpara	3,046	2,464	5,510	2	..	2	18·9	...	18·9	No female birth.
Howrah ...	Howrah	53,153	37,660	90,813	19	22	41	10·9	12·6	23·5	86
	Bali	7,836	6,979	14,815	9	2	11	31·6	7·0	38·6	450
24-Pergunnahs ...	Suburbs of Calcutta	147,205	104,234	251,439	43	44	87	8·9	9·1	18·0	97
Nuddea ...	Kishnaghur	13,263	14,214	27,477	4	1	5	7·6	1·9	9·5	400
	Ranaghat	4,028	4,655	8,683	..	...	...	...	.	.	......
	Santipore	13,708	15,979	29,687	2	4	6	3·5	7·0	10·5	50
Jessore	Jessore	4,830	3,665	8,495	5	5	10	30·6	30·6	61·2	100
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	11	7	18	28·9	18·4	47·3	157
Darjiling	Darjiling*	5,029	2,947	7,976	...	...	...	...	...	...	......
Dacca ...	Dacca	42,782	37,379	80,161	8	13	21	5·2	8·4	13·6	61
	Naraingunj	7,605	4,956	12,561	5	6	11	20·7	24·8	45·5	83
Chittagong ...	Chittagong	13,340	8,790	22,130	4	1	5	9·4	2·3	11·7	400
Tipperah	Comillah	8,153	5,353	13,506	5	3	8	19·3	11·5	30·8	166
Patna	Patna City	78,762	81,475	160,237	22	14	36	7·1	4·5	11·7	157
Gya	Gya	38,290	37,831	76,121	27	13	40	18·4	8·9	27·3	207
Shahabad	Arrah	20,960	22,505	43,465	7	4	11	8·4	4·8	13·2	175
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	5	2	7	6·1	2·4	8·5	250
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	28	36	64	22·0	28·3	50·4	77
Sarun	Chupra	26,044	27,205	53,249	16	5	21	15·6	4·9	20·5	360
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	12	11	23	10·9	9·9	20·8	109
Monghyr	Monghyr	28,154	29,366	57,520	22	25	47	19·9	22·6	42·5	88
Purneah	Purneah	8,463	6,553	15,016	2	4	6	6·9	13·9	20·8	50
Puri	Puri	13,247	11,537	24,784	6	4	10	12·6	8·4	21·0	150
	Total ...	702,890	619,691	1,322,581	313	258	571	12·3	10·1	22·5	121

1	2	7							8							9	10		11		12
		Mortality according to— Disease. Deaths from—							Ratio per 1,000 of population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Sex. Deaths.		Sex. Ratio per 1,000 of population per annum.		Ratio of male deaths to every 100 female deaths.
Districts.	Names of Municipalities.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan	Burdwan	4	.	23	4	1	8	40	6·1	...	35·1	6·1	1·5	12·2	61·0	21·4	24	16	69·1	51·9	150
Midnapore... ...	Midnapore	3	...	5	1	...	10	19	4·6	..	7·7	1·5	...	15·5	29·4	21·7	10	9	30·7	28·1	111
Hughli	Hughli and Chinsurah ..	...	...	8	2	..	3	13	...	...	10·7	2·7	...	4·0	17·5	13·4	10	3	27·1	8·0	333
Serampore ...	Serampore	2	...	2	2	1	4	11	3·9	...	3·9	3·9	2·0	7·9	21·6	29·4	5	6	19·2	24·1	83
	Utterpara	...	...	1	...	...	1	2	...	...	9·4	...	...	9·4	18·9	9·4	2	...	34·1	...	No female death.
Howrah ...	Howrah	8	...	3	4	...	10	25	4·6	...	1·7	2·3	...	5·7	14·3	21·2	20	5	19·6	6·9	400
	Bali	...	...	7	1	...	...	8	..	...	24·6	3·5	...	...	23·1	14·9	6	2	39·8	14·9	300
24-Pergunnahs ...	Suburbs of Calcutta	36	1	42	22	1	38	140	7·4	·2	8·7	4·5	·2	7·9	29·0	33·9	82	58	29·0	28·9	141
Nuddea ...	Kishnaghur	...	...	10	...	...	6	16	...	...	18·9	...	...	11·4	30·3	30·3	12	4	47·0	14·6	300
	Ranaghat	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6·0	...	1	...	12·9	...	No female death.
	Santipore	1	...	2	1	..	2	6	1·7	...	3·5	1·7	...	3·5	10·5	12·3	4	2	15·2	6·5	200
Jessore	Jessore	...	...	9	1	...	1	11	...	...	55·1	6·1	...	6·1	67·3	49·0	10	1	107·7	14·2	1,000
Rajshahye	Rampore Beauleah ...	4	...	4	...	...	2	10	10·5	...	10·5	...	...	5·3	26·3	28·9	6	4	29·0	23·0	150
Darjiling	Darjiling*	...	...	1	...	...	1	2	...	...	6·5	...	...	6·5	13·0	19·6	...	2	...	35·3	No male death.
Dacca ...	Dacca	11	...	12	3	...	14	40	7·1	...	7·8	1·9	...	9·1	25·9	26·7	20	20	24·3	27·8	100
	Naraingunj	6	...	3	1	...	2	12	24·8	...	12·4	4·1	...	8·3	49·7	41·4	4	8	27·4	53·9	50
Chittagong ...	Chittagong	...	...	4	2	...	1	7	...	...	9·4	4·7	...	2·3	16·4	16·4	5	2	19·5	11·8	250
Tipperah	Comillah	2	...	5	...	...	...	7	7·7	...	19·3	...	...	...	27·0	27·0	6	1	38·3	9·7	600
Patna	Patna City	8	3	9	10	...	8	38	2·6	1·0	2·9	3·2	...	2·6	12·3	11·3	24	14	15·8	8·9	171
Gya	Gya	17	.	17	3	...	26	63	11·6	...	11·6	2·0	...	17·8	43·0	48·5	36	27	48·9	37·1	133
Shahabad	Arrah	...	1	5	1	...	...	7	...	1·2	5·9	1·2	...	...	8·3	9·6	5	2	12·4	4·6	250
Mozufferpore ..	Mozufferpore	...	...	3	..	...	5	8	...	...	3·6	...	...	6·1	9·7	12·2	3	5	6·8	13·2	60
Durbhanga... ...	Durbhanga	...	.	18	3	1	3	25	...	...	14·1	2·4	·8	2·4	19·7	20·5	13	12	20·0	19·3	108
Sarun	Chupra	...	.	3	...	1	8	12	...	...	2·9	.	1·0	7·8	11·7	8·8	7	5	16·5	9·6	140
Bhagulpore... ...	Bhagulpore	..	.	3	...	.	12	15	...	...	2·7	.	..	10·9	13·6	13·6	8	7	14·0	13·1	114
Monghyr	Monghyr	2	..	6	2	.	8	18	1·8	...	5·4	1·8	...	7·2	16·3	19·9	7	11	12·9	19·5	63
Purneah	Purneah	34	..	1	6	...	3	44	117·7	..	3·5	20·8	...	1·4	152·4	131·6	26	18	159·8	142·8	144
Puri	Puri	10	..	1	4		8	23	21·0	...	2·1	8·4	...	16·8	48·3	71·3	10	13	39·3	56·6	76
	Total ...	148	5	208	73	5	184	623	5·8	·2	8·2	2·9	·2	7·2	24·5	24·5	366	257	27·1	21·6	142

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age-classification.

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	24	16	..	...	..	52·7	81·1	.	.	6	3	2	2	2	9	5	5	4	2	472·7	69·1	44·6	41·3	33 3	59·1	37 7	58·9	84·7	70·2
Midnapore	Midnapore	...	16	3	...	...	...	32·1	21 6	...	.	2	3	1		.	1	2	2	2	6	140·0	66·3	13·9	... ..	.....	7·1	18·8	27·9	50·4	170·5
Hughli	Hughli and Chinsurah ...	...	11	2	..	.	...	18·1	15 2	..	...	1	2	.	.	..	1	3	1	2	3	55·1	39 0	......	... .	.....	6·8	22·3	10 1	31 8	62·2
Serampore	Serampore	...	9	2	...	..	...	18·5	110·9	...	...	2	3	..	..	2	2	1		...	1	146 5	86·4	... .	.... .	47·6	19·3	10·5	. ....	......	37·4
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	..	.	...	.	1	1	...	.	.	......	. ...	......	......	...	45·2	49·0	......	......	. ....
Howrah	Howrah	1	19	5	..	...	27·5	14·5	12·7	...	...	8	2	1	2	1	.	3	3	2	3	201·6	18 8	8 3	15 8	7·1	......	8 1	13·3	18·9	41·6
	Bali	...	8	...	...	...	...	31·0	...	...	...	1	1	...	1	...	.	...	2	2	1	143·6	52·1	... .	43 8	.. ...	......	... ..	53·7	99·2	71·0
24-Pergunnahs	Suburbs of Calcutta	4	84	52	...	...	51·4	29·1	28·0	...	...	17	12	4	3	5	25	34	12	17	11	185 5	38·6	10·5	8 7	14·4	22 4	34·3	18·4	52·1	40·2
Nuddea	Kishnaghur	1	6	9	...	...	91·7	16·7	56·5	...	...	4	...	..	...	...	3	3	3	3	...	419·4	......	.....	......	......	32 4	36·4	47·8	74 0	... .
	Ranaghat	...	1	...	...	...	...	7 1	..	...	...	...	.	...	...	...		...	1	...	.	. ...	. .	......	......	. .	......	...	51·8	......	......
	Santipore	...	3	3	...	...	...	7·5	17·4	...	...	1	..	...	. .	1	...	1		...	3	61·5	....	......	......	23 4	... .	12·0	......		79·4
Jessore	Jessore	...	10	1	...	...	...	115·3	13·6	...	...	3	1	1	.	1	..	1	2	1	1	804·1	105 3	65·6	... ..	71·0	. .	34·0	99·0	92 4	113·5
Rajshahye	Rampore Beauleah	...	7	3	...	...	...	36 7	15·9	...	...	4	.	1	1	3	...	1		..	...	512·3	.....	25·0	28·9	93·9	... ..	14·4	......	...	......
Darjiling	Darjiling	...	2	...	...	..	...	22·6	...	...	...	.	1	.	..	.	...	...	...	...	1	....	60·9	. .	... ..	.. .	......	...	.. ...	......	307·7
Dacca	Dacca	..	25	15	...	...	...	32·3	19·8		...	5	6	4	2	2	8	7	1	2	3	137 0	42·3	21·1	13·1	14 2	27·1	31 2	6·2	22·0	28·0
	Narainganj	...	7	5	...	...	...	57·6	42·2	.	...	3	1	. .	1	1	2	..	3	...	1	559·1	45 6	...	45·8	49·8	59 0	.. .	112·0	.. ...	79 8
Chittagong	Chittagong	1	3	3	...	...	65·3	26·9	10·2	...	...	...	1	1	. .	1	...	2	1	1	...	... .	26·4	20 8	... ..	21 5	... .	31·2	23·0	47·9	... ..
Tipperah	Comillah	...	2	5	...	...	...	17·5	35·2	...	. .	..		...		.	1	1	...	1	4	. ...	.. ..	...	..	. ..	18·8	26 1	......	64 9	306·8
Patna	Patna City	. .	29	9	...	...	..	12·7	11 4	...	...	9	7		2	3	3	2	1	3	8	108 6	24·9	...	7·2	14·0	5·4	4·5	2·8	11·0	30·1
Gya	Gya	...	55	8	...	...	...	47·6	25·9	..	...	9	5	3	1	4	8	8	8	7	10	261·5	40 9	22·3	7·7	39·7	28·3	32 7	42 6	55·4	101·0
Shahabad	Arrah	...	5	2	...	...	...	8 4	8·4	...	...	2	3	...	...		...	..	...	1	1	80·7	35·2	. . .	......	.....	. .	... ..	......	18·8	18·0
Mozufferpore	Mozufferpore	...	5	3	...	...	..	8 7	12·5	..	..	1	1		...	1	...	1	1	..	3	54 5	13·9	......	... ..	17·2	.....	7·5	10 4	.. ..	64·1
Durbhanga	Durbhanga	...	16	9	...	...	...	17·2	26 6	...	...	6	5	2	2	2	...	2	1	1	4	200·4	34·2	15·3	18 7	25·9	. ....	9·3	7·0	11·9	65·1
Sarun	Chupra	...	7	5	...	...	...	8·9	21·6	...	...	1	2	1	1	1	1	.	3	...	2	36·0	19·6	8·4	10·1	14·6	5·5	.... .	24·9	......	29·9
Bhagulpore	Bhagulpore	...	9	6	...	...	...	11·8	18·1	...	...	6	2	2	...	...	2	.	1	...	2	261·3	19·2	17 7	......	......	9·5	... ..	8·5	.. .	28·9
Monghyr	Monghyr	...	16	2	...	...	...	18·6	8·3	...	...	2	2	1	...	2	3	2		..	6	70 0	16·7	7·4	. ..	27·5	15·1	11·7	......	.. ...	87·0
Purneah	Purneah	...	16	28	...	...	...	90·7	257·2	...	..	4	2	1	1	8	5	14	2	2	5	735·0	86·1	32 9	43 5	418·5	79·1	255·2	56·1	111·0	322·2
Puri	Puri	...	23	..	...	...	...	48 8	. .	...	...	5	..	...	2	.	3	4	3	5	1	858·1	... ..	..	55·4	......	29·5	51·3	46·9	116·5	28·8
	TOTAL ...	7	420	196	.	..	30 4	23 9	26 0	...	..	102	65	25	21	40	78	98	56	56	52	174 9	30·8	9·9	9·5	20·9	15·0	22·3	18 2	30·6	53·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 16th April 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers-Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of March 1889.

Date.	River Ganges																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
Distance. Miles	From Allahabad 88		From Allahabad 134; From Mirzapore 48		From Benares 90		From Benares 177; From Buxar 87		From Benares 287; From Dinapur 110		From Benares 381; From Monghyr 94		From Benares 471; From Sahebgunge 90		From Benares 591; From Rampore Beauleah 120							
	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st ...	3·83	210·05	2·25	199·05	3·75	172·80	8·60	142·83	Below zero. 2·58	99·27	Below zero. 0·50	67·50	Below zero. 0·13	41·87	0·58	9·52	1·54	35·28	2·67	6·97	Below zero. 3·90	144·86
2nd ...	3·83	210·05	2·25	199·05	3·75	172·80	8·65	142·88	2·42	99·43	0·42	67·58	0·04	41·96	0·75	9·69	1·50	35·24	3·17	7·47	3·95	144·81
3rd ..	3·83	210·05	2·25	199·05	3·83	172·88	8·70	142·93	2·38	99·47	0·42	67·58	Above zero. 0·00	42·00	0·83	9·77	1·50	35·24	3·83	8·13	3·87	144·89
4th ..	3·83	210·05	2·25	199·05	3·83	172·88	8·70	142·93	2·25	99·60	0·42	67·58	0·02	42·02	0·92	9·86	1·46	35·20	3·63	7·93	3·72	145·04
5th ...	4·00	210·22	2·25	199·05	3·92	172·97	8·65	142·88	2·25	99·60	0·33	67·67	0·02	42·02	1·00	9·94	1·46	35·20	3·42	7·72	3·58	145·18
6th ..	4·25	210·47	2·25	199·05	3·92	172·97	8·60	142·83	2·33	99·52	0·33	67·67	0·04	42·04	0·83	9·77	1·42	35·16	3·17	7·47	3·50	145·26
7th ..	4·50	210·72	2·17	198·97	3·92	172·97	8·55	142·78	2·42	99·43	0·33	67·67	0·04	42·04	0·75	9·69	1·42	35·16	2·58	6·88	3·48	145·28
8th	5·08	211·30	2·83	199·63	3·92	172·97	8·55	142·78	2·46	99·39	0·42	67·58	0·06	42·06	0·67	9·61	1·38	35·12	2·33	6·63	3·42	145·34
9th ...	5·83	212·05	3·83	200·63	3·92	172·97	8·55	142·78	2·50	99·35	0·42	67·58	0·06	42·06	0·67	9·61	1·38	35·12	2·33	6·63	2·90	145·86
10th ...	6·08	212·30	4·50	201·30	3·92	172·97	8·50	142·73	2·58	99·27	0·50	67·50	0·04	42·04	0·50	9·44	1·33	35·07	2·04	6·34	2·60	146·16
11th	6·08	212·30	4·67	201·47	4·25	173·30	8·50	142·73	2·63	99·22	0·50	67·50	0·01	42·01	0·42	9·36	1·33	35·07	2·00	6·30	2·90	145·86
12th	5·83	212·05	4·58	201·38	4·50	173·55	8·60	142·83	2·67	99·18	0·50	67·50	Below zero. 0·04	41·96	0·25	9·19	1·33	35·07	2·00	6·30	3·15	145·61
13th	5·58	211·80	4·33	201·13	5·00	174·05	8·70	142·93	2·75	99·10	0·50	67·50	0·08	41·92	0·25	9·19	1·33	35·07	2·00	6·30	3·35	145·41
14th	5·25	211·47	4·08	200·88	5·25	174·30	8·90	143·13	2·63	99·22	0·58	67·42	0·13	41·87	0·42	9·36	1·29	35·03	2·13	6·43	3·41	145·35
15th	5·00	211·22	3·83	200·63	5·17	174·22	8·90	143·13	2·42	99·43	0·58	67·42	0·13	41·87	0·50	9·44	1·29	35·03	2·42	6·72	3·50	145·26
16th	4·83	211·05	3·50	200·30	5·00	174·05	9·00	143·23	2·33	99·52	0·58	67·42	0·15	41·85	0·75	9·69	1·25	34·99	2·63	6·93	3·55	145·21
17th	4·75	210·97	3·42	200·22	4·83	173·88	8·90	143·13	2·25	99·60	0·58	67·42	0·15	41·85	1·00	9·94	1·25	34·99	3·00	7·30	3·60	145·16
18th	4·58	210·80	3·25	200·05	4·75	173·80	8·90	143·13	2·25	99·60	0·33	67·67	0·11	41·89	1·17	10·11	1·21	34·95	3·42	7·72	3·57	145·19
19th	4·50	210·72	3·00	199·80	4·67	173·72	8·60	142·83	2·33	99·52	0·08	67·92	0·04	41·96	1·25	10·19	1·21	34·95	4·00	8·30	3·49	145·27
20th	4·25	210·47	2·75	199·55	5·50	173·55	8·55	142·78	2·42	99·43	0·08	67·92	Above zero. 0·00	42·00	1·50	10·44	1·21	34·95	4·00	8·30	3·32	145·44
21st ..	4·08	210·30	2·50	199·30	4·25	173·30	8·50	142·73	2·46	99·39	0·25	67·75	0·04	42·04	1·67	10·61	1·17	34·91	4·13	8·43	3·21	145·55
22nd ...	3·92	210·14	2·33	199·13	4·17	173·22	8·50	142·73	2·54	99·31	0·25	67·75	0·03	42·03	1·58	10·52	1·17	34·91	3·83	8·13	3·08	145·68
23rd ...	3·67	209·89	2·08	198·88	4·00	173·05	8·50	142·73	2·67	99·18	0·33	67·67	0·15	42·15	1·58	10·52	1·17	34·91	3·29	7·59	2·83	145·93
24th ..	3·50	209·72	2·08	198·88	3·92	172·97	8·40	142·63	2·75	99·10	0·42	67·58	0·14	42·19	1·25	10·19	1·17	34·91	2·58	6·88	2·40	146·36
25th ..	3·42	209·64	1·92	198·72	3·75	172·80	8·40	142·63	2·79	99·06	0·50	67·50	0·19	42·14	1·17	10·11	1·17	34·91	2·25	6·55	2·07	146·69
26th ...	3·25	209·47	1·75	198·55	3·67	172·73	8·40	142·63	2·96	98·89	0·50	67·50	0·17	42·17	0·92	9·86	1·17	34·91	2·17	6·47	1·40	147·36
27th	3·25	209·47	1·67	198·47	3·58	172·63	8·40	142·63	3·08	98·77	0·58	67·42	0·08	42·08	0·75	9·69	1·13	34·87	2·25	6·55	0·13	148·63
28th	3·17	209·39	1·58	198·38	3·50	173·55	8·40	142·63	3·21	98·64	0·75	67·25	0·00	42·00	1·00	9·94	1·13	34·87	2·33	6·63	Above zero. 0·50	149·26
29th	3·00	209·22	1·58	198·38	3·42	172·47	8·20	142·43	3·25	98·60	0·83	67·17	Below zero. 0·08	41·92	1·25	10·19	1·13	34·87	2·54	6·84	Below zero. 0·30	148·46
30th	3·00	209·22	1·50	198·30	3·33	172·38	8·00	142·23	3·29	98·56	0·92	67·08	0·13	41·87	1·25	10·19	1·13	34·87	2·79	7·09	0·80	147·96
31st	2·92	209·14	1·33	198·13	3·25	172·30	8·00	142·23	3·33	98·52	0·92	67·08	0·15	41·85	1·50	10·44	1·13	34·87	2·96	7·26	1·18	147·58

G. A. G. Shawe,

Under-Secretary to the Govt. of Bengal.

The 16th April 1889.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of February 1889.

ORISSA CIRCLE.

TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 27 MILES. MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
23	1. Grain ...	117	72	189	11,368	189	11,368	
...	2. Cotton ...	...	... ..	......	......	......	.. ...	
...	3. Oilseeds ...	......	...	...	......	......	.. ..	
...	4. Salt ...	...	......	......	......	......	......	
...	5. Piece-goods ...	......	......	...	... ..	......	......	
...	6. Metal ...	......	......	... ..	......	......	......	
35	7. Building materials	... ..	465	465	640	420	532	
9	8. Miscellaneous ...	1	32	33	530	33	530	
1	9. Fuel ...	.. ...	7	7	50	7	50	
15 rafts.	10. Timber	......	298 No.	298 No.	476	298 No.	476	
20 „	11. Bamboos	......	16,200 „	16,200 „	334	16,200 „	334	
68 boats 35 rafts	12. Total ...	118	576 & 16,498 No.	694 & 16,498 No.	13,398	649 & 16,498 No.	13,290	
227 boats 65 rafts	13. Total of same month last year.		3,006 & 23,780 No.	3,006 & 23,780 No.	9,822	2,949 & 23,780 No.	9,712	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	18	50	68
15. Total number of boats plying passenger No.	12	1	13
15½. Total number of empty boats No.	44	32	76
16. Total registered tonnage, cargo Tons	208	1,048	1,256
17. Total registered tonnage, passenger Tons	317	1	318
17½. Total registered tonnage, empty boats Tons	421	361	782
18. Ton-mileage ...	16,557	23,323	39,880
19. Estimated value of cargo Rs.	9,818	2,770	12,588
20. Number of passengers No.	425	2	427
21. Rafts, bamboos „	......	16,200	16,200
22. Do., bullahs „	......	298	298
23. Estimated value of rafts Rs.	......	810	810
24. Tollage on boats „	140-4-0	189-0-0	329-4-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	41-7-0	41-7-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·60
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	370 11 0
Total tollage of same month last year ...	1,028 8 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ..	3 12 0
2. Tollage per month ...	370 11 0
3. Total ...	374 7 0
4. Amount credited in the accounts of the month ...	345 0 0
5. Balance due at the end of the month ...	29 7 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
260	1. Grain ...	1,006	401	1,407	88,630	1,407	88,630	
...	2. Cotton ...	......	...	......	......	......	......	
13	3. Oilseeds ...	17	179	196	25,600	196	25,600	
11	4. Salt ...	34	45	79	6,640	79	6,640	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ..	......	......	......	......	......	......	
82	7. Building materials	15	895	910	9,350	453	6,730	
167	8. Miscellaneous ...	555	557	1,112	2,22,830	1,112	2,22,830	
5	9. Fuel ...	33	......	33	90	33	90	
24 rafts.	10. Timber	......	2,385 No.	2,385 No.	5,250	2,385 No.	5,250	
38 "	11. Bamboos ...	......	102,670 "	102,670 "	1,250	102,670 "	1,250	
538 & 62 rafts.	12. Total ...	1,660	2,077 & 105,055 No.	3,737 & 105,055 No	3,59,640	3,280 & 105,055 No.	3,57,020	
508 & 54 rafts.	13. Total of same month last year	1,591	2,999 & 167,299 No.	4,590 & 167,299 No.	4,89,090	3,896 & 167,299No.	4,86,630	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	321	217	538
15. Total number of boats plying passenger No.	50	61	111
15½. Total number of empty boats No.	139	193	332
16. Total registered tonnage, cargo Tons	3,320	3,715	7,035
17. Total registered tonnage, passenger Tons	50	61	111
17½. Total registered tonnage, empty boats Tons	940	696	1,636
18. Ton-mileage ...	148,859	175,367	324,226
19. Estimated value of cargo Rs.	1,78,790	1,74,350	3,53,140
20. Number of passengers No.	2,504	4,227	6,731
21. Rafts, bamboos "	......	102,670	102,670
22. Do., timbers "	......	2,385	2,385
23. Estimated value of rafts Rs.	......	6,500	6,500
24. Tollage on boats "	2,691-8-8	2,819-10-9	5,511-3-5
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	263-13-7	263-13-7
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-4-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,775	1	0
Total tollage of same month last year ..	5,891	14	1

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	5,423	13	4
2. Tollage per month ...	5,775	1	0
3. Total ...	11,198	14	4
4. Amount credited in the accounts of the month ...	6,456	10	8
5. Balance due at the end of the month ...	4,742	3	8

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
181	1. Grain ...	524	......	524	25,120	524	25,120	
...	2. Cotton ...	......	......	......	......	......	......	
20	3. Oilseeds ...	43	......	43	3,530	43	3 530	
35	4. Salt ...	......	46	46	3,900	46	3,900	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
18	7. Building materials	9	118	127	260	9	110	
81	8. Miscellaneous ...	117	64	181	14,440	181	14,440	
20	9. Fuel ...	164	......	164	460	164	460	
5 rafts.	10. Timber ..	1,828 No.	......	1,828 No.	5,520	1,828 No.	5,520	
2 „	11. Bamboos ...	......	5,400 No.	5,400 „	650	5,400 „	650	
355 & 7 rafts	12. Total ...	857 & 1,828 No.	228 & 5,400 No.	1,085 & 7,228 No.	53,880	967 & 7,228 No.	53,730	
473 & 6 rafts.	13. Total of same month last year ...	1,495 & 3,087 No.	806 & 6,500 No.	2,301 & 9,587 No.	88,320	1,735 & 9,587 No.	88,050	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	287	68	355
15. Total number of boats plying passenger No.	9	7	16
15½. Total number of empty boats No.	29	323	352
16. Total registered tonnage, cargo Tons	1,664	521	2,185
17. Total registered tonnage, passenger Tons	32	30	62
17½. Total registered tonnage, empty boats Tons	125	970	1,095
18. Ton-mileage ...	26,862	25,486	52,348
19. Estimated value of cargo Rs.	34,450	13,260	47,710
20. Number of passengers No.	11	34	45
21. Rafts, bamboos „	......	5,400	5,400
22. Do., timber „	1,828	......	1,828
23. Estimated value of rafts Rs.	5,520	650	6,170
24. Tollage on boats „	479-6-3	219-7-0	698-13-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	91-1-6	5-1-0	96-2-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·6
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-4-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	794	15	9
Total tollage of same month last year	1,070	7	2

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	189	13	0
2. Tollage per month ...	794	15	9
3. Total ...	984	12	9
4. Amount credited in the accounts of the month	893	8	3
5. Balance due at the end of the month ...	91	4	6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees	Private. Quantity. Tons.	Value. Rupees.	Remarks.
118	1. Grain ...	392	......	392	15,127	392	15,127	
...	2. Cotton ..	......	......	...	......	..	......	
2	3. Oilseeds ...	.....	5½	5½	580	5½	580	
7	4. Salt ...	.....	19½	19½	2,735	19½	2,735	
17	5. Piece-goods ...	......	21	21	5,960	21	5,960	
......	6. Metal ...	......	......	......	......	......	...	
63	7. Building materials	......	539	539	637	4	240	
26	8. Miscellaneous ...	4½	105	109½	11,598	109½	11,598	
11	9. Fuel ...	.....	79	79	1,920	13½	39	
11 rafts	10. Timber ...	......	411 No. 2,466 c. ft.	411 No. 2,466 c. ft.	1,197	411 No. 2,466 c. ft.	1,197	
21 „	11. Bamboos ...	......	9,900 No.	9,900 No.	297	9,900 No.	297	
244 & 32 rafts	12. Total ...	396½	769 & 2,466 c. ft. 9,900 No.	1,165½ & 2,466 c. ft. 9,900 No.	40,051	565 & 2,466 c.ft. 9,900 No.	37,773	
209 & 32 rafts.	13. Total of same month last year.	......	......	933 & 11,272 No.	36,548	429½ & 11,272 No.	35,573	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	124	120	244
14½. Total number of empty boats No.	107	129	236
15. Total number of boats plying passenger No.	2	4	6
15½. Total number of empty boats No.	2	......	2
16. Total registered tonnage, cargo Tons	792	1,538	2,330
16½. Total registered tonnage, empty boats Tons	533	409	942
17. Total registered tonnage, passenger Tons	4	6	10
17½. Total registered tonnage, empty boats No.	4		4
18. Ton-mileage	14,900	18,390	33,290
19. Estimated value of cargo Rs	15,326	23,231	38,557
20. Number of passengers No.	337	339½	676½
21. Rafts, bamboos „	.....	9,900	9,900
22. Do., bullahs c. ft.	. . ..	2,466	2,466
23. Estimated value of rafts Rs.		1,494	1,494
24. Tollage on boats „	193-13-6	305-12-0	499-9-6
25. Compounded tollage on boats Rs.	......	..	.....
26. Tollage on rafts „	.. ...	26-5-6	26-5-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·88
28. Total tollage on rafts per 100 cubic feet Rs.	......	.. ..	1-1-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	525	15	0
Total tollage of same month last year ...	395	3	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month .	3	15	6
2. Tollage per month ...	525	15	0
3. Total ...	529	14	6
4. Amount credited in the accounts of the month ...	529	1	0
5. Balance due at the end of the month ...	0	13	6

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
68	1. Grain ...	150½	......	150½	11,033	150½	11,033	
...	2. Cotton ...	......	......	......	......	......	... ..	
...	3. Oilseeds ...	......	......	......	......	......	......	
1	4. Salt ...	.. ...	3½	3½	424	3½	424	
...	5. Piece-goods ...	......	......	......	.. ...	......	......	
	6. Metal ...	......	... ..	.....	. ...	......	......	
49	7. Building materials	... .	454½	454½	373	......	......	
8	8. Miscellaneous ...	......	41½	41½	4,376	41½	4,376	
..	9. Fuel ...	......	..	... .	......	......	......	
6 rafts.	10. Timber ...	......	546 c. ft.	546 c. ft.	194	546 c. ft.	194	
...	11. Bamboos .	......	....	......	......	......	... ..	
126 & 6 rafts.	12. Total ...	150½	499½ & 546 c. ft.	650 & 546 c. ft	16,400	195½ & 516 c. ft.	16,027	
61 & 10 rafts.	13. Total of same month last year.	......	......	196¼ & 86 No.	10,204	150 & 86 No.	10,197	

	Up.	Down.	Total
14. Total number of boats plying cargo No.	68	58	126
14½. Total number of empty boats No	49	75	124
15. Total number of boats plying passenger No.	..	. ....	.. ...
15½. Total number of empty boats No.	......	......	......
16. Total registered tonnage, cargo Tons	301	999	1,300
16½. Total registered tonnage, empty boats Tons	345	327	672
17. Total registered tonnage, passenger Tons	......	.....	.....
17½. Total registered tonnage, empty boats No.	...	.. ...	......
18. Ton-mileage ...	6,212	10,218	16,430
19. Estimated value of cargo Rs	11,033	5,173	16,206
20. Number of passengers No.	317	327½	644½
21. Rafts, bamboos c. ft.	......	......	......
22. Do., bullahs ,,	... .	546	546
23. Estimated value of rafts Rs.	. ....	194	194
24. Tollage on boats ,,	97-13-0	195-2-9	292-15-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts ,,	......	4-9-3	4-9-3
27. Total tollage on boats per ton-mile Rs.	... .	......	0-0-3·31
28. Total tollage on rafts per 100 cubic feet Rs.	......	... ..	0-13-5

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	297	9	0
Total tollage of same month last year ...	85	11	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	.....		
2. Tollage per month ...	297	9	0
3. Total ...	297	9	0
4. Amount credited in the accounts of the month ...	297	9	0
5. Balance due at the end of the month ...	......		

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1	1. Grain ...	3	......	3	174	3	174	
...	2. Cotton ...	......	......	......	......	......	......	
10	3. Oilseeds ...	......	39	39	3,940	39	3 940	
...	4. Salt ...	......	......	......	......	......	......	
1	5. Piece-goods ...	......	1	1	340	1	340	
...	6. Metal ...	......	......	......	......	......	......	
2	7. Building materials	......	½	½	2	½	2	
1	8. Miscellaneous ...	......	½	½	300	½	300	
1	9. Fuel ...	......	8	8	58	8	58	
7 rafts	10. Timber ...	......	1,068 c. ft.	1,068 c. ft.	47	1,068 c. ft.	47	
8 "	11. Bamboos ...	......	5,800 No.	5,800 No.	116	5,800 No.	116	
16 rafts. 15 No.	12. Total ...	3	49 / 1,068c. ft. / 5,800 No.	52 / 1,068 & / 5,800c.ft.	4,977	52 / 1,068c ft. / 5,800 No.	4,977	
...	13. Total of same month last year	......	......	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1	15	16
14½. Total number of empty boats No.	16	2	18
15. Total number of boats plying passenger No.	2	3	5
15½. Total number of empty boats No.	1	1	2
16. Total registered tonnage, cargo Tons	6	78	84
16½ Total registered tonnage, empty boats Tons	37	2	39
17. Total registered tonnage, passenger Tons	5	1½	6½
17½. Total registered tonnage, empty boats Tons	½	4	4½
18. Ton-mileage ...	291	642	933
19. Estimated value of cargo Rs.	174	4,640	4,814
20. Number of passengers No.	6	11	17
21. Rafts, bamboos "	......	5,800	5,800
22. Do., bullahs c.ft.	......	1,068	1,068
23. Estimated value of rafts Rs.	......	163	163
24. Tollage on boats "	2-7-0	7-13-0	10-4-0
25. Compounded tollage on boats ... Rs.	......	......	......
26. Tollage on rafts "	......	2-3-10	2-3-10
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·7
28. Total tollage on rafts per 100 cubic feet Rs.	...	......	0-0-3·3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	12	7	10
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	......		
2. Tollage per month ...	12	7	10
3. Total ...	12	7	10
4. Amount credited in the accounts of the month ...	12	7	10
5. Balance due at the end of the month ...	......		

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,457	1. Grain ...	7,062	281	7,343	3,18,489	7,343	3,18,489	
...	2. Cotton ...	......	1	1	640	1	640	
9	3. Oilseeds ...	24	45	69	7,144	69	7,144	
76	4. Salt ...	......	595	595	58,946	595	58,946	
1	5. Piece-goods ...	......	53	53	1,48,800	53	1,48,800	
6	6. Metal	5	27	32	6,775	32	6,775	
28	7. Building materials	165	17	182	1,110	182	1,110	
237	8. Miscellaneous ...	480	491	971	1,52,874	971	1,52,874	
30	9. Fuel ...	124	113	237	4,330	237	4,330	
49	10. Timber ...	19,251 c. ft.	185 c. ft.	19,436 c. ft.	4,468	19,436 c. ft.	4,468	
6	11. Bamboos ...	700 ,,	50 ,,	750 ,,	74	750 ,,	74	
1,839 & 55 rafts.	12. Total ...	7,860 & 19,951 c. ft.	1,623 & 235 c. ft.	9,483 & 20,186 c. ft.	7,03,650	9,483 & 20,186 c. ft.	7,03,650	
1,631 & 54 rafts.	13. Total of same month last year.	8,878 & 7,954 c. ft.	2,027 & 503 c. ft.	10,905 & 8,457 c. ft.	6,68,397	10,905 & 8,457 c. ft.	6,68,397	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,552	287	1,839
15. Total number of boats plying passenger No.	441	650	1,091
15½. Total number of empty boats No.	675	1,065	1,740
16. Total registered tonnage, cargo Tons	21,974	3,912	25,886
17. Total registered tonnage, passenger Tons	1,978	3,593	5,571
17½. Total registered tonnage, empty boats Tons	2,740	4,477	7,217
18. Ton-mileage	6,48,527	2,61,659	9,10,186
19. Estimated value of cargo Rs.	3,27,354	3,71,754	6,99,108
20. Number of passengers No.	5,590	9,935	15,525
21. Rafts, bamboos c. ft.	700	50	750
22. Do., bullahs ,,	19,251	185	19,436
23. Estimated value of rafts Rs	4,207	335	4,542
24. Tollage on boats ,,	9,902-5-0	4,136-2-3	14,038-7-3
25. Compounded tollage on boats. Rs.	......	......	...
26. Tollage on rafts ,,	174-7-6	4-5-0	178-12-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-14-2

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	14,217	3	9
Total tollage of same month last year .	11,211	13	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	5,562	2	4
2. Tollage per month ...	14,217	3	9
Total ..	19,779	6	1
3. Deduct amount erroneously added in December 1888 .	226	14	0
	19,552	8	1
4. Add amount omitted in January 1889 ...	30	0	0
Total ...	19,582	8	1
5. Amount paid into Treasury during the month	14,164	5	9
6. Balance due at the end of the month ...	5,418	2	4

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
399	1. Grain ...	2,258	6	2,264	90,357	2,264	90,357	
.	2. Cotton ...		......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	...	......	
19	4 Salt ...	......	162	162	18,200	162	18,200	
6	5. Piece-goods ...	......	13	13	8,750	13	8,750	
1	6. Metal ...	11	......	11	3,000	... .	......	
24	7. Building materials	118	35	153	634	148	604	
596	8. Miscellaneous ...	213	260	473	44,628	473	44,628	
28	9. Fuel ...	77	123	200	1,302	195	1,265	
3 rafts	10. Timber ...	......	1,513 c. ft.	1,513 c ft.	1,466	1,513 c.ft.	1,466	
5 „	11. Bamboos ...	......	550 „	550 „	73	550 „	73	
1,073 & 8 rafts.	12. Total ...	2,677	599 & 2,063 c ft.	3,276 & 2,063 c. ft.	1,68,410	3,255 & 2,063 c. ft	1,65,343	
......	13. Total of same month last year	......	......	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	530	543	1,073
15. Total number of boats plying passenger No.	33	50	83
16. Total registered tonnage, cargo Tons	5,530	3,190	8,720
17. Total registered tonnage, passenger Tons	410	453	863
18. Ton-mileage	109,484	64,223	173,707
19. Estimated value of cargo Rs.	1,00,339	66,532	1,66,871
20. Number of passengers No.	1,343	1,770	3,113
21. Rafts, bamboos c. ft.	......	550	550
22. Do., bullahs „	......	1,513	1,513
23. Estimated value of rafts Rs.	......	1,539	1,539
24. Tollage on boats „	1,924-4-0	1,104-2-3	3,028-6-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	.	13-2-6	13-2-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-10-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	3,041	8	9
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,546	1	6
2. Tollage per month ...	3,041	8	9
3. Total ...	4,587	10	3
4. Amount paid into Treasury during the month .	2,957	12	6
5. Balance due at the end of the month	1,629	13	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
11	1. Grain ...	1	79	80	2,780	80	2,780	
...	2. Cotton ...	......	......	.....	......	......	....	
...	3. Oilseeds ...	5	.....	5	1,485	5	1,485	
4	4. Salt ...	57	7	64	14,015	64	14,015	
19	5. Piece-goods ...	101	3	104	30,529	102	30,179	
...	6. Metal ...	2	1	3	1,940	3	1,940	
16	7. Building materials	100	19	119	565	16	85	
67	8. Miscellaneous ...	14	491	505	45,594	270	45,239	
1	9. Fuel { By boat	......	2	2	8	2	8	
	„ raft	......	63	63	200	63	200	
2	10. Timber. { By boat	8	......	8	308	8	308	
	„ raft	....	482	482	3,487	482	3,487	
15	11. Bamboos. { By boat	164	......	164	2,395	164	2,395	
	„ raft	13	657	670	9,461	670	9,461	
135	12. Total ...	465	1,804	2,269	1,12,767	1,929	1,11,582	
113	13. Total of same month last year.	...	......	3,368	1,37,120	3,277	1,33,787	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	55	80	135
15. Total number of boats plying passenger No.	5	4	9
15½. Total number of empty boats No.	46	35	81
16. Total registered tonnage, cargo Tons	861	964	1,825
17. Total registered tonnage, passenger Tons	113	108	221
17½. Total registered tonnage, empty boats Tons	212	171	383
18. Ton-mileage ...	38,942	1,17,091	1,56,033
19. Estimated value of cargo Rs.	51,470	48,149	99,619
20. Number of passengers No.	306	239½	545½
21. Rafts, bamboos c. ft.	2,000	98,480	1,00,480
22. Do., bullahs „	...	40,904	40.904
23. Estimated value of rafts Rs.	200	12,948	13,148
24. Tollage on boats „	244-9-6	438-4-9	682-14-3
25. Compounded tollage on boats Rs.	.....	......	......
26. Tollage on rafts „	0-10-0	349-1-0	349-11-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-·84
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-3-11

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,032	9	3
Total tollage of same month last year ...	2,221	9	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	408	14	0
2. Tollage per month ...	1,032	9	3
3. Total ...	1,441	7	3
4. Amount credited in the accounts of the month	1,178	3	0
5. Balance due at the end of the month ...	263	4	3

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
13	1. Grain ...	1	132	133	9,532	133	9,532	
......	2. Cotton ...	......	......	......	......	......	......	
......	3. Oilseeds ...	1	......	1	140	1	140	
14	4 Salt ...	143	......	143	14,935	143	14,935	
1	5. Piece-goods	18	......	18	27,875	18	27,875	
......	6. Metal ...	1	1	2	1,173	2	1,173	
9	7. Building materials	8	64	72	870	36	160	
63	8. Miscellaneous ...	15	263	278	15,356	156	15,116	
5	9. Fuel ...	10	69	79	1,255	69	1,150	
......	10. Timber ...	1	3	4	211	4	211	
......	11. { Bamboos ...	......	215	215	2,645	215	2,645	
	11. { Bullahs	......	531	531	3,487	531	3,487	
	11. { Firewood ...	......	622	622	1,856	622	1,856	
105	12. Total ...	198	1,900	2,098	79,335	1,930	78,280	
135	13. Total of same month last year.	......	......	2,456	1,07,888	1,979	96,945	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	24	81	105
15. Total number of boats plying passenger No.	1	2	3
15½. Total number of empty boats No.	58	18	76
16. Total registered tonnage, cargo Tons	413	943	1,356
17. Total registered tonnage, passenger Tons	69	66	135
17½. Total registered tonnage, empty boats Tons	191	75	266
18. Ton-mileage ...	30,187	39,076	69,263
19. Estimated value of cargo Rs.	46,388	24,959	71,347
20. Number of passengers No.	885	853	1,738
21. Rafts, bamboos c.ft.	......	32,297	32 297
22. Do., bullahs „	......	39,870	39,870
22½. Do., firewood „	......	46,670	46,670
23. Estimated value of rafts Rs.	......	7,988	7,988
24. Tollage on boats „	127-3-3	265-6-3	392-9-6
25. Compounded tollage on boats Rs.	128-0-0	128-0-0	256-0-0
26. Tollage on rafts „	......	247-13-6	247-13-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·79
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-3-4

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ..	896	7	0
Total tollage of same month last year ...	1,108	8	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	108	1	3
2. Tollage per month ...	896	7	0
3. Total ...	1,004	8	3
4. Amount credited in the accounts of the month	936	5	3
5. Balance due at the end of the month ..	68	3	0

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees	
5	1. Grain ...	1	86	87	6,366	87	6,366	
2	2. Cotton ...	11	......	11	3,000	11	3,000	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	1	......	1	1,060	1	1,060	
...	6. Metal ...	1	......	1	740	1	740	
2	7. Building materials	......	21	21	125	21	125	
7	8. Miscellaneous ...	17	78	95	8,879	95	8,879	
...	9. Fuel ...	......	......	......	......	......	......	
...	10. Timber ...	......	344	344	2,495	344	2,495	
...	11. Bamboos ...	......	432	432	5,956	432	5,956	
16	12. Total ...	31	961	992	28,621	992	28,621	
55	13. Total of same month last year	......	......	1,329	71,504	925	56,397	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4	12	16
15. Total number of boats plying passenger No.	11	8	19
15½. Total number of empty boats No.	10	6	16
16. Total registered tonnage, cargo Tons	38	1,018	1,056
17. Total registered tonnage, passenger Tons	231	192	423
17½. Total registered tonnage, empty boats Tons	38	16	54
18. Ton-mileage ...	2,422	9,320	11,742
19. Estimated value of cargo Rs.	9,179	10,991	20,170
20. Number of passengers No.	574	384½	958½
21. Rafts, bamboos c. ft.	......	64,783	64,783
22. Do., bullahs "	......	25,840	25,840
23. Estimated value of rafts Rs.	......	8,451	8,451
24. Tollage on boats "	22-11-0	61-7-0	84-2-0
25. Compounded tollage on boats Rs.	......	64-0-0	64-0-0
26. Tollage on rafts "	......	352-10-9	352-10-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·42
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-6-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	503	12	9
Total tollage of same month last year ...	826	14	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	80	7	9
2. Tollage per month ...	500	12	9
3. Total ...	581	4	6
4. Amount credited in the accounts of the month ...	531	2	6
5. Balance due at the end of the month ...	50	2	0

ABSTRACT FOR THE MONTH OF JANUARY 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1888-89.		Traffic, 1887-88.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	370 11 0	2,690 11 0	1,028 8 6	5,797 3 3	
Kendrapara Canal System	5,775 1 0	45,507 12 6	5,891 14 1	41,973 0 3	
High Level, Range I ...	794 15 9	5,709 9 9	1,070 7 2	7,406 0 8	
Ditto, " II ...	525 15 0	2,562 9 6	395 3 3	3,319 13 6	
Ditto, " III ...	297 9 0	1,194 5 6	85 14 9	985 12 9	
Jajepore Canal ...	12 7 10	86 12 9	......	......	
Total Orissa Circle ...	7,776 11 7	57,751 13 0	8,471 15 9	59,481 14 5	
South-Western Circle.					
Midnapore Canal ...	14,217 3 9	1,31,691 12 6	11,211 13 3	1,12,213 6 0	
Hidgellee Tidal Canal ...	3,041 8 9	50,526 12 9	......	40,046 14 0	
Total South-Western Circle	17,258 12 6	1,82,218 9 3	11,211 13 3	1,52,260 4 0	
Sone Circle.					
Patna Canal System ...	1,032 9 3	21,949 4 9	2,221 9 0	23,770 14 7	
Arrah ditto ...	896 7 0	17,134 2 2	1,108 8 0	13,741 15 0	
Buxar ditto ...	500 12 9	8,112 2 6	826 14 9	7,052 7 8	
Total Sone Circle ...	2,429 13 0	47,195 9 5	4,156 15 9	44,565 5 3	
GRAND TOTAL ...	27,465 5 1	2,87,165 15 8	23,840 12 9	2,56,307 7 8	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1888-89.						Traffic, 1887-88.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	955	3,155	1,380 3 4	5,304	7,179	6,515 3 8	175	777	247 4 6	3 063	5,484	4,031 11 9
Total Orissa Circle ...	955	3,155	1,380 3 4	5,304	7,179	6,515 3 8	175	777	247 4 6	3,063	5,484	4,031 11 9

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1888-89.		Earnings, 1887-88.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	9,156 14 11	64,267 0 8	8,719 4 3	63,513 10 2	
Midnapore Canal ...	14,217 3 9	1,31,691 12 6	11,211 13 3	1,12,213 6 0	
Hidgellee Tidal Canal ...	3,041 8 9	50,526 12 9	......	40,046 14 0	
Sone Canals ...	2,429 13 0	47,195 9 5	4,156 15 9	44,565 5 3	
Total ...	28,845 8 5	2,93,681 3 4	24,088 1 3	2,60,339 3 5	

CALCUTTA,

The 16*th April* 1889.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 13th April 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 13th April 1889.			Week ending Saturday, the 14th April 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	209	60,600	971	504	1,56,697	2,823
Jute	10	4,075	65	19	16,225	256
Firewood	89	36,130	538	166	85,750	1,281
Other articles	612	1,47,775	2,209	723	1,78,135	2,707
Total ...	920	2,48,580	3,783	1,412	4,36,807	7,067

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, *on* 1,513¾ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*205,813	*3,25,322 11 0	27,67,451 10	6,32,604 2 0	16,900 6 0	9,74,827 3 0	67,982½	96,377½	164,360
Or per mile of railway	....	214 14 7	.. ...	417 14 6	11 2 7	643 15 8	......	......	......
For previous 13 weeks of half-year	3,349,755	39,01,464 2 0	3,60,14,195 10	78,12,288 13 4	2,04,092 9 8	1,19,17,845 9 0	849,920½	1,243,789	2,093,709½
Total for 14 weeks ...	3,615,568	42,26,786 13 0	3,87,81,646 20	84,44,893 15 4	2,20,992 15 8	1,28,92,672 12 0	917,902½	1,340,166½	2,258,069½
COMPARISON.									
Total for corresponding week of previous year	2[?]3,012	2,94,450 15 3	28,28,073 0	6,23,322 14 0	20,540 5 6	9,38,314 2 9	65,717	1,01,270	166,987
Per mile of railway corresponding week of previous year ..	......	191 8 3	......	411 12 5	13 9 1	619 13 9	......	......	......
Total to corresponding date of previous year	3,742,461½	44,00,573 14 10	3,95,84,690 0	91,85,823 4 10	3,19,573 8 2	1,39,11,970 11 10	935,547	1,463,473	2,399,020

* The increase in coaching traffic is partly due to pilgrim and mela traffic, and partly to His Excellency the Viceroy's journey to Simla.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 31st March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	9,38,314	620	1,513¾	9,74,827	644	1,513¾	4,63,32,422	589	1,513¾	4,46,97,882	568	......	16,34,540

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, *on* 57¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,434	9,978 2 0	44,905 0	3,180 13 0	52 6 0	13,211 5 0	1,908	486	2,394
Or per mile of railway	305	174 7 1	785 10	55 9 9	0 14 8	230 15 6	......	......	......
For previous 13 weeks of half-year	*179,230	*98,561 12 0	†4,54,903 0	†26,398 14 0	‡479 3 10	1,25,439 13 10	24,617½	7,146	31,763½
Total for 14 weeks ...	196,664	1,08,539 14 0	4,99,808 0	29,579 11 0	531 9 10	1,38,651 2 10	26,525½	7,632	34,157½
COMPARISON.									
Total for corresponding week of previous year	11,971½	5,353 7 11	47,901 20	3,903 10 0	37 2 0	9,294 3 11	1,662	732	2,394
Per mile of railway corresponding week of previous year ..	.. .	93 9 6	......	68 3 11	0 10 4	162 7 9	......	......	......
Total to corresponding date of previous year	210,485½	1,14,739 3 6	4,97,506 10	32,933 14 0	656 6 0	1,48,320 7 6	25,605	8,253	33,858

* Added No. of passengers 10,021 and Rs. 3,656 0 0 }
† Ditto mds. 37,711 and ,, 403 0 0 } on account of differences between the approximate and audited returns to week ended 2nd March 1889.
‡ Ditto ,, 9 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 31st March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57¼	9,294	162	57¼	13,211	231	57¼	5,19,181	175	57¼	*4,96,084	167	......	23,097

* Added Rs. 4,128 on account of difference between the approximate and audited figures to week ended 2nd March 1889, and Rs. 689 on account of supplemental return for 31st December 1888.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,954	508 2 0	18,555 30	477 12 0	10 0 0	995 14 0	354½	139	493½
Or per mile of railway ...	.. ...	42 5 6	......	39 13 0	0 13 4	82 15 10	.....	......	...
For previous 13 weeks of half-year	*35,348	*5,965 15 0	†2,37,072 30	†5,326 14 0	‡122 15 8	11,415 12 8	4,501½	1,773½	6,271½
Total for 14 weeks ...	38,302	6,474 1 0	2,55,628 20	5,804 10 0	132 15 8	12,411 10 8	4,855½	1,912½	6,768
Comparison.									
Total for corresponding week of previous year	2,390	409 7 0	17,180 20	451 4 0	5 6 0	866 1 0	323	170	493
Per mile of railway corresponding week of previous year .	......	34 1 11	......	37 9 8	0 7 2	72 2 9	......	......	......
Total to corresponding date of previous year	40,809	6,877 0 0	3,00,910 10	6,314 1 0	149 1 9	13,340 2 9	4,687	2,215	6,902

* Added No. of passengers 1,423 and Rs. 256 0 0 }
† Ditto Mds. 4,022 and deducted „ 86 0 0 } on account of differences between the approximate and audited returns to week ended 2nd March 1889.
‡ Deducted „ 24 0 0 }

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 31st March 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	866	72	12	996	83	12	47,994	77	12	*45,322	73	..	2,672

* Added Rs. 146 on account of difference between approximate and audited figures to week ended 2nd March 1889 and deducted Rs. 9 on account of supplemental return for 31st December 1888.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, on 22¼ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ..	29,772	8,205 8 0	9,613 20	336 3 0	5 10 0	8,517 5 0	902	66	968
Or per mile of railway	.	368 12 7	.	15 1 9	0 4 1	384 2 5	...	......	
For previous 13 weeks of half-year	*284,131	*73,918 15 0	†1,27,149 0	†4,550 12 0	‡87 9 10	78,557 4 10	11,754	817	12,571
Total for 14 weeks .	313,903	82,124 7 0	1,36,763 20	4,886 15 0	93 3 10	87,104 9 10	12,656	883	13,539
Comparison.									
Total for corresponding week of previous year .	29,685½	8,204 13 11	10,285 30	412 4 0	5 2 0	712 3 11	885	83	968
Per mile of railway corresponding week of previous year		372 12 10		18 8 6	0 3 8	391 9 0	..	...	
Total to corresponding date of previous year .	306,017½	79,939 7 10	1,24,184 20	4,523 15 0	102 1 6	84,565 8 4	12,504	1,180	13,684

* Added No. of passengers 12,153 and Rs. 4,322 0 0 }
† Ditto Mds 156 and „ 3 0 0 } on account of differences between the approximate and audited returns to week ended 2nd March 1889
‡ Deducted „ 2 0 0 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 31st March 1888			Total receipts from 1st April 1888 to 31st March 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs	Rs.
22¼	8,712	392	22¼	8,547	384	22¼	2,69,082	233	22¼	*2,83,644	245	14,562	..

* Added Rs. 4,324 on account of difference between the approximate and audited figures to week ended 2nd March 1889 and Rs. 9 on account of supplemental return for 31st December 1889.

EASTERN BENGAL STATE RAILWAY.

(Including N. B.; Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 30th March 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	134,360	d77,890 0 0	c6,31,708 0	c78,330 0 0	22,060 0 0	1,78,880 0 0	22,214	22,895	45,109
Or per mile of railway	200	116 0 0	939 0	116 0 0	†19 0 0	251 0 0	......	......	...
For previous 12 weeks of half-year	1,761,446	9,17,544 0 0	59,72,810 0	10,66,340 0 0	1,97,505 0 0	*21,81,389 0 0	254,835	297,828	552,663
Total for 13 weeks ...	1,895,806	9,95,434 0 0	66,04,518 0	11,44,670 0 0	2,20,165 0 0	23,60,269 0 0	277,049	320,723	597,772
Comparison.									
Total for corresponding week of previous year	a160,279	67,819 0 0	b9,14,225 0	b80,070 0 0	25,383 0 0	1,73,272 0 0	21,191	23,371	44,563
Per mile of railway corresponding period of previous year	248	105 0 0	1,418 0	124 0 0	†24 0 0	258 0 0	......	... ..	.....
Total to corresponding date of previous year ..	1,880,226	10,17,717 0 0	72,29,190 0	10,50,132 0 0	2,18,973 0 0	22,86,822 0 0	288,530	323,715	612,245

* Audited up to week ending 16th February 1889.
† Excluding steamer earnings.
a. Includes 42,000 monthly tickets.
b. Do. 400,000 maunds and Rs. 11,000 for ballast train.
c. Do. 100,000 ditto „ 6,000 ditto.
d. Increase is due to Baruni bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
645	1,73,272	269	673	1,78,880	236	645	96,36,534	287	673	*1,05,90,494	303	9,53,960	.....

* Audited up to week ending 16th February 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,160	b11,020 0 0	64,990 0	4,300 0 0	40 0 0	15,360 0 0	3,597	2,075	5,672
Or per mile of railway	217	88 0 0	520 0	35 0 0		123 0 0		... .	. .
For previous 12 weeks of half-year	323,410	1,19,693 0 0	6,51,038 0	34,807 0 0	4,252 0 0	*1,58,752 0 0	42,224	23,325	65,549
Total for 13 weeks	350,570	1,30,713 0 0	7,16,028 0	39,107 0 0	4,292 0 0	1,74,112 0 0	45,821	25,400	71,221
Comparison.									
Total for corresponding week of previous year	a30,132	8,401 0 0	60,651 0	3,655 0 0	82 0 0	12,138 0 0	3,294	2,062	5,356
Per mile of railway corresponding period of previous year	241	67 0 0	485 0	29 0 0	1 0 0	97 0 0	.	......	.....
Total to corresponding date of previous year .	347,861	1,20,256 0 0	6,93,604 0	43,179 0 0	3,311 0 0	1,66,746 0 0	43,486	25,691	69,177

* Audited up to week ending 16th February 1889.
a Includes 7,280 monthly tickets
b Due to Baruni Ganges bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,138	97	125	15,360	123	125	6,72,330	103	125	*7,20,258	111	47,928	......

* Audited up to week ending 16th February 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th March 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,650	5,170 0 0	26,620 0	840 0 0	150 0 0	6,160 0 0	2,402	702	3,104
Or per mile of railway	182	60 0 0	308 0	10 0 0	2 0 0	72 0 0	......	...	
For previous 12 weeks of half-year	173,960	57,531 0 0	1,58,840 0	13,114 0 0	3,666 0 0	*74,311 0 0	28,442	7,952	36,394
Total for 13 weeks ...	189,610	62,701 0 0	1,85,360 0	13,954 0 0	3,816 0 0	80,471 0 0	30,844	8,654	39,498
Comparison.									
Total for corresponding week of previous year .	14,083	3,983 0 0	23,097 0	798 0 0	112 0 0	4,893 0 0	2,485	619	3,104
Per mile of railway corresponding period of previous year . .	164	46 0 0	268 0	9 0 0	2 0 0	57 0 0	......	...	
Total to corresponding date of previous year	181,171	56,550 0 0	1,79,357 0	12,673 0 0	2,437 0 0	71,660 0 0	32,305	8,047	40,352

* Audited up to week ending 16th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888.			Total receipts from 1st April 1888 to 31st March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
86	4,893	57	86	6,160	72	86	2,97,798	67	86	*3,03,799	68	6,001	.

* Audited up to week ending 16th February 1889.

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 30th March 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	2,580	1,020 0 0	26,690 0	2,000 0 0	40 0 0	3,060 0 0	532	532	1,064
Or per mile of railway	68	27 0 0	702 0	53 0 0	1 0 0	81 0 0		.	
For previous 12 weeks of half-year . ..	34,000	13,545 0 0	3,14,820 0	20,739 0 0	1,761 0 0	*35,845 0 0	6,256	6,256	12,512
Total for 13 weeks	36,580	14,365 0 0	3,41,510 0	22,739 0 0	1,801 0 0	38,905 0 0	6,788	6,788	13,576
Comparison									
Total for corresponding week of previous year	2,785	910 0 0	32,095 0	2,728 0 0	34 0 0	3,662 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	71	23 0 0	823 0	70 0 0	1 0 0	94 0 0	. ...		..
Total to corresponding date of previous year	40,402	13,962 0 0	3,45,674 0	25,704 0 0	621 0 0	40,347 0 0	7,098	7 098	14,196

* Audited up to week ending 16th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 31st March 1888.			Receipts for week ending 30th March 1889.			Total receipts from 1st April 1887 to 31st March 1888			Total receipts from 1st April 1888 to 30th March 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,662	94	38	3,060	81	39	1,27,388	63	38	*1,71,911	87	44,523	..

* Audited up to week ending 16th February 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 6th April 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,427	1,266 0 0	5,289 0	356 0 0	13 0 0	1,635 0 0	509	254	763
Or per mile of railway ...	126	46 0 0	194 0	13 0 0	1 0 0	60 0 0	......	......	......
For previous 12 weeks of half-year ...	44,787	16,543 0 0	1,69,864 0	9,862 0 0	207 0 0	26,612 0 0	6,471	6,687	13,158
Total for 13 weeks ...	48,214	17,809 0 0	1,75,153 0	10,218 0 0	220 0 0	28,247 0 0	6,980	6,941	13,921
Comparison.									
Total for corresponding week of previous year ...	2,742	1,066 0 0	14,735 0	1,036 0 0	31 0 0	2,133 0 0	509	363	872
Per mile of railway corresponding week of previous year ...	101	39 0 0	541 0	38 0 0	1 0 0	78 0 0	......	......	......
Total to corresponding date of previous year ...	46,374	17,029 0 0	2,53,582 0	13,810 0 0	321 0 0	31,160 0 0	7,126	7,248	14,374

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888.			Total receipts from 1st April 1889 to 6th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,133	78	27½	1,635	60	27½	2,133	78	27½	1,635	60	......	498

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 6th April 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open ...	46,232	17,371 0 0	1,54,584 0	13,946 0 0	3,383 0 0	34,700 0 0	5,431	4,784	10,215
Or per mile of railway ...	169	63 0 0	566 0	51 0 0	3 0 0	117 0 0*	...	...	...
For previous 12 weeks of half-year ...	538,092	2,07,259 0 0	17,29,646 0	1,60,790 0 0	40,071 0 0	4,08,120 0 0	71,727	70,234	141,061
Total for 13 weeks ...	584,324	2,24,630 0 0	18,84,230 0	1,74,736 0 0	43,454 0 0	4,42,820 0 0	77,158	75,018	152,176
Comparison.									
Total for corresponding week of previous year on 259 miles open ...	42,422	15,972 0 0	1,68,707 0	15,464 0 0	2,574 0 0	34,010 0 0	6,175	5,584	11,759
Per mile of railway corresponding week of previous year	164	61 0 0	652 0	60 0 0	1 0 0	122 0 0*	..	.	...
Total to corresponding date of previous year	596,449	2,38,521 0 0	28,37,922 0	3,12,234 0 0	41,036 0 0	5,91,791 0 0	88,443	117,009	205,452

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 7th April 1888			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888.			Total receipts from 1st April 1888 to 6th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	34,010	131	273	34,700	127	259	34,010	131	273	34,700	127	690	....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 30th March 1889	10,577
Corresponding week last year	13,159
Decrease	2,582
Receipts from 1st January to 30th March 1889	1,02,388
From 1st January to 31st March 1888	1,11,815
Decrease	9,427

	Miles.
Miles open week ending 30th March 1889...	51
Corresponding week last year	51

	Rs.	A.	P.
Receipts per mile open week ending 30th March 1889...	207	6	3
Corresponding week last year	258	0	5
Decrease	50	10	2

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 17th April 1889.

REGISTERED No. 29.

No. 17 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, APRIL 24, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

OUTTURN OF CROPS.

THE following papers are published for general information, in continuation of those published at pages 2511—26 of the Supplement to the *Calcutta Gazette* of the 19th December, 1888.

REVENUE DEPT., CALCUTTA; *The* 22*nd April,* 1889.

By order of the Lieut.-Govr. of Bengal,
P. NOLAN,
Secretary to the Govt of Bengal.

Estimated outturn of Rubbee Crops and of important special crops, viz., *Jute, Tobacco, Sugarcane, &c., for the year* 1888-89.

NOTE.

THE present season has been unfavourable to the *rubbee* crops. The sowing was done with difficulty, and in some places over a reduced area on account of the failure of the Hatya rain. In Rajshahye, Bogra, Patna, Gya, and Shahabad the crops were also injured by a hail-storm. As was to be expected under these conditions, a harvest below the average is reported from almost every district; while in Hazaribagh, Singbhoom, Lohardugga, Pooree, Bankoora, Chittagong, and Shahabad the estimated outturn is far below the average. A sixteen-anna crop has been estimated only in the following places, namely, in the subdivisions of Tumlook, Bhuddruck, Uluberia, Sarun, Sewan, Lalbagh, and Jungipore, and in the Rungpore district.

On the whole not more than a ten-anna crop for the entire province may be expected.

2. One of the statements annexed to this note shows the estimated outturn of the most important special crops grown in Bengal, such as sugarcane, potatoes, poppy, ganja, &c. Sugarcane has suffered from a deficiency of rainfall in the Burdwan Division, and in Patna, Chittagong, and Furreedpore; while in Hooghly, Nuddea, and Jessore it was partially destroyed by floods. In Shahabad the outturn is estimated at a little over ten annas, but this is a much better crop than was obtained last year. A bumper crop has been reported from Sarun.

Much damage has been done to the ganja and the poppy crops by hail-storms.

A splendid crop of mulberry is expected in Moorshedabad, but it has not done so well in other places.

Tobacco has done badly in all the important tobacco-growing districts in Bengal excepting the Sudder sub-division of Rungpore, where a full average crop is expected.

M. FINUCANE,
Director of Land Records and Agriculture.

STATEMENT III.—*Estimated Outturn of Rubbee Crops.*

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				BURDWAN DIVISION.				
Burdwan	Sudder	1,242	9.3	280	Pulses Mustard Wheat	11 annas	8 annas	The crops both this year and in the past year suffered from a deficiency of rainfall.
	Culna	432	350	100	Wheat Linseed Pulses	10 "	12 "	
	Cutwa	352	265	75	Pulses Oil-seeds Wheat	10 "	11 "	
	Ranigunge	671	361	29·6	Pulses Oil-seeds	14 to 16 annas.	10 "	
	District Total	2,697	1,069	484·6	..	..	.	
Bankoora	Sudder	1,921	670	16	Wheat Barley Pulses Mustard Surgooja, &c. Cotton (karpas)	6 annas 6 " 6 " 5 " 10 " 16 "	6 annas 6 " 7 " 6 " 8 " 12 "	Early cessation of rain affected the cultivation as well as the growth of the *rubbee* crops both in the current and in the previous year.
	Bishenpore	700	350	70	Wheat Barley Pulses Mustard	10 "	12 "	
	District Total	2,621	1,020	86	..	..	.	
Beerbhoom	Soory (Sudder)	1,108	604	99	Wheat Gram Mustard Musoor Khesari Peas	12 annas 12 " 14 " 10 " 8 " 8 "	15 annas	Want of sufficient rain during sowing season.
	Rampore Hât	648	480	32	Wheat Gram Mustard Arhar Maize Pulses	6 " 8 " 10 " 10 " 12 " 8 "	9 "	The floods in August and the rain in November greatly delayed the sowing of the *rubbee* crops.
	District Total	1,756	1,150	131	.....	..	.	
Midnapore	Sudder	3,207	2,152	312·75	Moong Biri Linseed Til Khesari Gram Surgooja Wheat Peas Musoor Barley Til Arhar Kulthi Kapas	10 annas	10 annas	
	Contai	849	800	96	Kalai Oil-seeds	8 "	10 "	The crops this year were greatly damaged, and in some places altogether destroyed by heavily floods.
	Ghattal	352	220	14	Pulses	8 "	10 "	The want of timely rain, as well as subsequent floods, caused damage to the crops.
	Tumlook	620	465	58	Mustard Biri Khesari Peas	16 "	12 "	
	District Total	5,087	3,637	480·75	......	...	..	
Hooghly	Sudder	443	329	48	Potato Mustard Pulses	13 annas	12 annas	
	Serampore	343	250	30	Potato Pulses Mustard Barley	15 " 14 " 14 "	14 " 14 " 14 "	
	Jehanabad	438	262	87	Pulses	13 "	13 "	
	Howrah	173	94·5	31	Khesari Musoor Peas Pulses	15 "	14 "	
	Uluberiah	303	218	35	Musoor Khesari Gram, barley, wheat, &c. Mustard Linseed Peas	16 "	12 to 18 annas.	
	District Total	1,699	1,103·5	231	......	......	......	

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				PRESIDENCY DIVISION.				
24-Pergunnahs.	Sudder, including Barripore.	885	502	35	Peas ... .. Musoor ... .. Khesari .. ... Krishna moong ..	12 annas	12 annas.	
	Diamond Harbour	417	257	5	Khesari ... ... Peas	12 "	......	
	Barasot .	392	243	63	Kalai .. .. Peas Gram Musoor	10 "	12 annas.	
	Bashirat ..	360	269	47	Gram .. Moong ... Peas Khesari	10 "	9 "	
	Barrackpore ..	42	13	1·5	Peas .. Gram . ... Khesari ... .. Musoor ...	12 "	10 "	
	Dum-Dum ..	24	15·13	Nil	Nil	....	.. .	No *rubbee* crop is grown here excepting the special crops mentioned in statement IV.
	District Total	2,120	1,299·13	151·5	... ..	..	.....	
Khoolna .	Sudder .. ... Satkhira ... Basirhat Area of boundary, khals, rivers of the Sundurbuns in this district.	1,572·40 1,273·80 1,508·63 496	498 516 739	19 80 100 .	Oil-seeds, viz., linseed, mustard &c Musoor ... ... Turmeric Chillis ... ... Kalai . Peas ... ... Khesari ... ... Arhar . .. Moong ...	8 annas	12 annas	Deficiency of rain is the cause of the poor outturn this year as well as in the previous year.
	District Total .	*4,849·91	1,753	199	... .	..	......	
Nuddea ..	Sudder ..	701	535	350	Wheat, barley, oats, mustard, linseed, peas, arhar, moong, kalai musoor, khesari.	12 annas.	14 annas.	
	Chuadanga	437	272	218	Linseed ... ... Gram ... . Wheat .. ... Musoor . ... Arhar ... .. Mustard ... . Moong ... Kalai ... Peas . ..	12 " 12 " 4 " 6 " 6 " 4 " 4 " 4 " 6 "	8 " 16 " 6 " 6 " 4 " 8 " 6 " 6 " 16 "	The low outturn is due to the want of rain during the months of December and January
	Kushtea	558	418	209	Mustard, khesari, moong, maskalai, musoor, wheat, barley, cheena, gram, linseed, til, peas.	8 "	10 "	Want of rain in the sowing season affected the outturn of the crops this year
	Meherpore	627	500	314	Kalai .. Moong Arhar . Wheat .. . Barley .. ... Mustard . Peas Musoor .. .. Khesari ... .. Til ... . Surgooja .. ... Linseed .	6 " 5 " 6 " 7 " 6 " 7 " 6½ " 7 " 5½ " 5 " 3½ " 1 "	8 "	The crops suffered much from want of rain in the beginning of the season, as was the case also last year.
	Ranaghat .	427	225	192	Wheat .. Barley .. Peas ... Pulses . .. Mustard ... .. Linseed	12 "	13 "	(1) Of the *rubbee* crops, linseed and gram were partly damaged in some places by hail-storm, (2) want of rain in October partially affected the outturn of the crops.
	District Total ...	2,750	1,950	1,283	.....	..		
Jessore ...	Sudder	889	478	285	Kalai . . Moong .. Arhar . .. Peas ... . Musoor .. . Chillis ... .. Gram ... ... Oilseeds	10 annas 12 " 9 " 10 " 10 " 13 " 12 " 8 "	12 annas	Deficiency of rainfall at the sowing season affected the crops.
	Bongong	649	389	194	Mustard ... . Linseed ... .. Gram . .. Arhar ... . Moong ... Kalai . .. Peas ... . Musoor	12*a* " 12 " 10 " 6*b* " 10 " 12 " 16 " 12 "	8 " 11 " 10 " 16 " 10 " 12 " 14 " 10 "	(*b*) The crop has been partly destroyed by the flood of the current year. The outturn was better last year owing to seasonable and moderate rainfall.
	Narail	487	365·2	182·6	Peas ... .. Khesari . .. Moong .. ... Maskalai . ... Mustard	14 " 14 " 14 " 13 " 14 "	14 " 14 " 13 " 12 " 14 "	

* This includes Sunderbuns 2,772·91 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
					PRESIDENCY DIVISION *concluded.*			
Jessore—*concld.*	Magoorah ..	425	268	42·5	Rape-seed Mustard Linseed Peas Moong Muskalai	8 annas (Rape-seed and Mustard) 10 ,, 6 ,, 12 ,, 12 ,,	12 annas 12 ,, 12 ,, 12 ,, 12 ,,	The crops have been generally affected by the deficiency of rainfall this year.
	Jhenidah	475	317	179	Kalai Moong Peas Barley Wheat Gram Musoor Chillis	3 ,, 3 ,, 12 ,, 8 ,, 8 ,, 6 ,, 6 ,, 10 ,,	3 ,, 3 ,, 12 ,, 8 ,, 8 ,, 6 ,, 6 ,, 12 ,,	Ditto ditto ditto.
	District Total	2,925	1,817·2	883·1	..	...	..	
Moorshedabad	Lalbagh	372	223	44	Wheat Barley Gram Linseed Musoor Other minor crops	16 ,,	12 ,,	Excess of rainfall at sowing time and want of rain at the time of reaping affected last year's crops
	Jungipore	508	444	177	Gram Musoor Khesari Wheat Barley Linseed Mustard Rape-seed Pulses	18 ,,	16 ,,	
	Kandi	512	409	122	Wheat Gram	14 ,,	10 ,,	The increase in the present year's yield over that of the previous year is owing to a deposit of silt by the flood during the last rains
	Sudder ..	767	613	306	Barley Mustard Wheat Til Linseed Kalai Arhar Gram Khesari Musoor Moong Belati jab Chillis	12 ,,	8 ,,	Deficiency of rainfall in October-November was prejudicial to a good outturn.
	District Total	2,159	1,689	649				
					RAJSHAHYE DIVISION.			
Dinagepore	Sudder	3,251	1,950	62	Mustard Potato Oats Wheat Barley Pulse Oilseed	10 annas	8 annas	
	Thakurgaon	867	650	92	Mustard Potato Brinjal Barley Wheat Peas	13 ,,	12 ,,	
	District Total	4,118	2,600	154				
Rajshahye	Sudder	944	585	151	Wheat Pulses Mustard Linseed Cheena	9 annas	10 annas	Irregular rainfall is the chief cause of the short outturn in the Sudder sub-division for both the last and the current years.
	Nattore ..	817	620	185	Kheruchi Wheat Pulses Mustard Linseed Kheruchi	13 ,,	12 ,,	Owing to the early receding of the flood and partial failure of amun crops on high lands, the cultivators have sown rubbee crops this year on a larger scale than previous year in Nattore sub-division, and the recent rains have done much good to the standing crops. The outturns are also expected to be excellent if there be no unforeseen events.
	Nowgong	603	483	102	Wheat Cheena Pulses Ginger Linseed Mustard Turmeric Potato	9¼ ,,	11 ,,	The hailstorm which visited the Nowgong sub-division in January last told very heavily on the outturn of mustard, tobacco, pulses and ganja grown in that sub-division.
	District Total	2,364	1,688	438				
Rungpore	Rungpore .	1,151	900	170	Potato Mustard Peas Brinjal Chillis	16 annas 16 ,, 16 ,, 10 ,, 10 ,,	16 annas 16 ,, 16 ,, 16 ,, 16 ,,	(1) The late autumnal rains have been beneficial to the rubbee crops generally. Brinjal suffered from excessive moisture in the ground at the sowing season. (2) The rainfall in the last year was abnormally heavy. In the Gaibanda and Kurigram sub-divisions considerable mischief was done to the rubbee crops, especially pulses and mustard
	Nelphamari	638	480	119	Mustard Wheat Pulses Ginger Potato	12 ,, 12 ,, 12 ,, 12 ,, 12 ,,	10 ,, 10 ,, 10 ,, 10 ,, 10 ,,	
	Kurigram	737	700	600	Pulses Mustard Wheat	11 ,, 14 ,, 12 ,,	8 ,, 12 ,, 12 ,,	
	Gaibanda ..	760	570	120	Wheat Mustard Pulses Chinakaun	16 ,, 18 ,, 10 ,, 16 ,,	16 ,, 18 ,, 10 ,, ...	
	District Total ...	3,[illegible]86	2,650	1,009	...		......	

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS MADE IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 19TH APRIL 1889.

TOWARDS the end of the previous week weather conditions had been somewhat disturbed in Bengal, and local storms had been rather numerous. On Friday the 12th, however, conditions appeared to be improving, and the nor'-westers were principally confined to East Bengal. On the 13th, or the first day of the present week, conditions were fairly normal in all districts, and fine weather prevailed generally except at a few stations in Orissa, where local storms with rain were reported. On the 14th, conditions remained practically unchanged, the pressure and temperature changes being small and unimportant. Weather again remained fine over the greater part of the province except in East Bengal, where a few showers were reported. On the morning of Monday, the 15th, again the general barometric changes were small, and pressure was rising by moderate amounts. Temperature on this and the previous day was also decidedly high, and a good many stations reported maximum temperatures of about 100° and upwards. The winds blowing over Bengal on this day, however, were decidedly anomalous in direction. Over the greater part of the interior of the province easterly, and even in some cases north-easterly, winds were reported, while at the southern stations winds were strongly southerly, so that there was a certain amount of interaction going on. That such was the case is also proved by the fact that winds showed considerable variation in directions at many stations from the morning of the 14th to the 15th, and from the 15th to the 16th; and with these variations there was also decided changes in the humidity of the atmosphere. These conditions brought about a series of disturbances in the form of local storms or nor'-westers, which were very general on the 15th over East Bengal and over parts of North and South-West Bengal. Most of these were of little strength and importance, but one of them in the Rajshahye district would appear to have developed into a tornado, probably of small size, which was sufficiently powerful to wreck a train on the Northern Bengal State Railway about 32 miles from Sara, and which also damaged some of the villages near the line of railway. On the 16th conditions remained nearly unaltered, though pressure was slightly low over Bengal, and conditions were fairly normal except for the strong easterly component in the wind directions at many stations in the province. This latter, however, has been a marked feature in the wind directions for the greater part of the week, and as strong southerly winds at the southern stations have been bringing up large quantities of moisture to the province, local storms, some of which were accompanied by heavy rain, have continued to occur, particularly in East and North Bengal, almost up to the close of the week. From the 16th to the 19th the pressure and temperature changes were rather small, and conditions remained practically unchanged. Thus during the week moderately heavy rain has occurred in East Bengal, and light to moderate rain in South-West and North Bengal and Orissa, but elsewhere it has been practically rainless.

Pressure.—The principal variations of pressure during the week have already been referred to. Taking into consideration only those stations which yield reliable normal pressure averages, the mean pressure for the week has been 0·02 inch in excess of the normal.

Temperature—Was very high during the first two or three days of the week over the entire province, but with the occurrence of local storms with rain, temperature was decidedly lower in many districts during the second half of the week. The mean temperature for the whole week has been above the normal by about one degree in Orissa, South-West Bengal, Behar and Chutia Nagpur, while it has been about half a degree below it in East and North Bengal. For the whole province the mean temperature for the week has therefore been above the normal by about half a degree. Many stations have reported maximum temperatures above 100° during the week, the highest recorded being 107·4° at Dehree on the 19th and 107° at Rampore on the 18th instant.

The following table gives the average temperature data for the week at nine typical stations in different districts in the province:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending Friday, the 19th April 1889.

	Normal mean maximum temperature for the week ending 19th April.	Actual mean maximum temperature for the week ending 19th April 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 19th April.	Actual mean minimum temperature for the week ending 19th April 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 19th April.	Actual mean daily temperature for the week ending 19th April 1889.	Variation of actual mean from the normal.
Cuttack	102·5	101·5	−1·0	77·6	80·0	−2·4	90·0	90·7	+0·7
Calcutta	96·1	93·9	−2·2	75·2	77·3	−2·1	85·7	85·6	−0·1
Dacca	93·4	94·3	+0·9	74·5	74·4	+0·1	84·0	84·6	+0·6
Burdwan	100·6	101·1	+0·5	75·3	78·2	+2·9	88·0	89·7	+1·7
Patna	101·2	102·4	+1·2	72·9	73·5	+0·6	87·0	88·0	+1·0
Gya	102·8	103·4	+0·6	74·9	75·3	+0·4	88·9	89·3	+0·4
Purneah	98·9	98·6	−0·3	68·9	71·8	+2·9	83·9	85·2	+1·3
Hazaribagh	96·8	98·5	−1·7	71·7	73·3	+1·6	84·3	85·9	+1·6
Darjeeling	63·4	57·9	−5·5	48·6	46·6	−2·0	56·0	51·8	−4·2

Rainfall.—The rainfall which has been brought entirely by local storms or nor'-westers has been very unequally distributed. At some stations these storms have given little or no rain; while at others very heavy falls are reported. Thus on the 16th Meherpur reported no less than 4·50 inches. Falls exceeding two inches within 24 hours have also been recorded during the week at Mymensingh, Netrokona, Alipore Door, and Fallacotta. The heaviest falls have usually occurred in East Bengal, which averages 1·21 inches, or an amount very considerably in excess of the normal. In South-West Bengal and North Bengal the falls have averaged about a third of an inch, and in Orissa about a quarter of an inch. In these three districts the falls have been about normal for the period. In other districts rainfall has been practically absent.

The following table gives the summary of the temperature and rainfall data of each of the seven meterological divisions of the Province for the week ending Friday, the 19th April 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	106 4	74·8	92·4	79·4	85·9	+0·8	0·25	0·27	—0·02	[illegible]4	0·7	—0·3	0·43	0·68	52·26	56 17
South-West Bengal ...	107·0	71·4	99·7	72·0	88·9	+1·0	0·36	0·43	—0·07	0·5	0·8	—0·3	1·04	0·90	58·17	55·40
East Bengal	101·5	64·3	91·7	73·8	82·8	—0·5	1·21	0·76	+0·45	1·8	1·3	+0·5	1·63	1·82	74·03	80·01
North Bengal	103 8	64·8	97·2	71·5	84·4	—0·6	0·37	0·37	[illegible]	1·1	0·8	+0·3	0·39	0·87	57·05	73·10
North Behar	102·8	64·8	98 5	72·6	85·5	+1·0	0·03	0·19	—0·16	0·1	0·4	—0·3	0·03	0·31	45·73	49·98
South Behar	107 4	69 5	102·0	74·7	88·4	+0·6	Nil	0 09	—0·09	0·0	0·3	—0·3	0 06	0·22	51·73	44·93
Chutia Nagpur	101·6*	68·9*	98·2*	73·1*	85 7*	+0·7*	0·01	0·10	— 0·09	0·1	0·4	—0·3	0·62	0·23	52·81	51·31

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 23*rd April* 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th April 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
April ...	14th .	29·832	86·6	95 5	17·9	77·6	88·4	80·5	·935	77·2	69	Nil
,, ...	15th .	·876	86·4	94·0	15·2	78·8	89·6	80·0	·896	75·9	65	,,
,, ..	16th ..	·824	85·4	93·8	16·8	77·0	88·4	80 ·	·911	76·4	68	,,
,, ...	17th ..	·788	87·7	96·0	16·7	49·3	90·1	81·5	·960	78 0	68	,,
,, ...	18th ..	·854	86 7	94·5	15 7	78·8	89·6	82 0	·992	79 0	71	,,
,, ...	19th	·851	88·7	98·0	18·7	79·3	90·4	82·5	1·005	79 4	70	,,
,, ...	20th ..	·751	88·7	99·0	20·7	78 3	91·8	83·0	1·011	79·6	68	,,

				Inches.
The mean 10 A.M. pressure of the seven days	...	...	...	29·825
				°
The mean temperature of the seven days	...	...	...	87·2
The extreme variation of temperature	...	...	...	22·0
The maximum temperature ...	...	...	...	99·0
				%
The mean 10 A.M. relative humidity of the seven days		...	...	68
				Inches.
The total fall of rain from 14th to 20th April 1889		...	...	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA ;
The 22*nd April* 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 14th to 20th April 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
April	14th	150·8	10·0	29·755	85·6	93·4	16·7	76·7	79·2	0·915	76·5	76	SSW and SW ...	143	Nil	Partially cloudy.
"	15th	149·0	10·2	·800	85·6	92·2	13·3	78·9	78·6	·887	75·6	73	SSE, SSW and SW...	159	"	Partially cloudy.
"	16th	148·8	9·5	·742	85·1	91·9	15·7	76·2	79·3	·927	76·9	77	SSW and SW ...	195	"	Partially cloudy.
"	17th	150·8	10·3	·722	86·6	94·3	15·0	79·3	80·1	·943	77·4	75	SW and SSW ...	277	"	Partially cloudy.
"	18th	148·3	9·5	·785	86·2	92·2	13·4	78·8	80·4	·964	78·1	78	SSW and SW ...	202	"	Partially cloudy
"	19th	151·5	9·4	·770	87·2	96·3	17·5	78·8	80·7	·965	78·1	75	SW and SSW ...	200	"	Chiefly clear.
"	20th	153·0	10·0	·682	87·4	97·6	18·9	78·7	80·0	·924	76·8	71	SSW and SW .	197	"	Clear

	Inches.
The mean pressure of the seven days	29·751
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·748
	Hours.
The total number of hours of bright sunshine	68·9
The maximum possible number of hours of sunshine	88·7
	°
The mean temperature of the seven days	86·2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	85·0
The extreme variation of temperature	21·4
The maximum temperature	97·6
	Miles.
The highest velocity of the wind in one hour	17
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	2
	%
The mean relative humidity	75
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	69
	Inches.
The total fall of rain from 14th to 20th April 1889	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·29
The total fall from 1st January to 20th April 1889	4·70
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	3·69

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

A. Pedler,

For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 22nd April 1889.

MEMORANDUM.

THE returns of the principal Municipalities in Bengal (excluding Suburbs of Calcutta, which has lately been amalgamated with the Calcutta Municipality), containing a population of 1,071,142, disclose, for the week ending 6th April 1889, the following particulars :—

1. Births and deaths were recorded at the rates, respectively, of 21·3 and 24·6 per 1,000 of population, against 23·5 and 23·4 per 1,000 in the preceding week. There was thus a falling off in the registration of births and an improvement in that of deaths.

2. In the following Municipalities births and deaths were recorded at the highest rates :—

Births.

	Ratio per *mille.*
Bhagulpore	49·8
Rampore Beauleah	44·7
Monghyr	38·0
Comillah	30·8

Deaths.

	Ratio per *mille.*
Purneah	90·0
Puri	56·6
Gya	49·2
Rampore Beauleah	42·0
Burdwan	41·2
Darjiling	39·1
Dacca	35·7
Bali	31·6
Serampore	31·4

3. The following table compares the results of the week ending 6th April with the week ending 30th March. It will be observed that there was an increase of deaths from fever only during the week ending 6th April :—

	Ratio per *mille* during the weeks ending— 6th April 1889.	30th March 1889.
Cholera	5·2	5·4
Small-pox	·3	·2
Fever	9·1	8·0
Bowel-complaints	2·5	2·5
Injury	·3	·2
Other causes	7·2	7·1

4. Of the diseases mentioned in the foregoing table, cholera, fever and the maladies grouped under the head of "Other causes" are reported to have been conspicuously fatal in the following Municipalities :—

Cholera.

	Ratio per *mille.*
Purneah ...	76·2
Puri ...	21·0
Rampore Beauleah ...	13·1
Dacca ...	9·7
Gya ...	9·6
Burdwan ...	7·6
Howrah ...	6·9
Midnapore ...	6·2

Fever.

	Ratio per *mille.*
Gya ...	23·9
Rampore Beauleah ...	23·6
Burdwan	22·9

Other causes.

	Ratio per *mille.*
Serampore ...	21·6
Puri ...	21·0
Bhagulpore ...	19·0
Naraingunj ...	16·5
Gya ...	13·6
Dacca ...	10·4

Cholera, though still high in the Purneah Municipality, was considerably less than in preceding week.

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	26·1
Females	23·0
Ratio of male deaths to every 100 female deaths	121

According to Class.

	Ratio per *mille.*
Hindus	24·3
Mahomedans ...	26·7
Budhists ...	25·7
Other classes ...	76·8

According to Age.

	Ratio per *mille.*
Under 1 year ...	166·7
1 and under 5 years ...	34·5
5 „ 10 „ ...	14·0
10 „ 15 „ ...	11·3
15 „ 20 „ ...	15·8
20 „ 30 „ ...	15·9
30 „ 40 „ ...	15·6
40 „ 50 „ ...	20·6
50 „ 60 „ ...	25·3
60 years and upwards ...	67·5

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 23rd *April* 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease															Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.				Number of—			Ratio per 1,000 of Population per annum.			Ratio of male births to every 100 female births	Deaths from—							Ratio per 1,000 of Population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week	Deaths.		Ratio per 1,000 of Population per annum.		Ratio of male deaths to every 100 female deaths.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	19,063	16,017	34,080	5	8	16	12·2	12·2	24·4	100	5		15	3		4	27	7·6	.	22·9	4·6	...	6·1	41·2	61·0	18	9	51·8	29·2	200
Midnapore ..	Midnapore ..	16,927	18,633	34,560	4	6	10	6·2	9·3	15·5	66	4	..	6	1	..	5	16	6·2	.	9·3	1·5	.	7·7	24·8	29·4	7	9	21·5	28·1	77
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	4	13	17	5·4	17·4	22·8	30	2	1	8	.		2	13	2·7	1·3	10·7		.	2·7	17·4	17·5	5	8	13·6	21·3	62
Serampore	Serampore	13,559	12,937	26,496	7	6	13	13·7	11·8	25·5	116	1		3	1	..	11	16	1·9	.	5·9	1·9	.	21·6	31·4	21·8	13	3	43·9	12·1	433
	Utterpara	3,046	2,464	5,510	2		2	18·9		18·9	No female birth	1		1			1	3	9·4	..	9·4			9·4	28·3	18·9	3	.	51·2		No female death.
Howrah ..	Howrah	53,153	37,660	90,813	13	22	35	7·4	12·3	20·0	59	12	1	10	5	2	19	40	6·9	·6	5·7	2·9	1·1	5·7	22·9	14·3	25	15	24·5	20·7	166
	Bali ...	7,836	6,979	14,815	3	2	5	10·5	7·0	17·5	150	1		3	3	1	1	9	3·5	..	10·5	10·5	3·5	3·5	31·6	23·1	7	2	46·5	14·9	350
Nuddea ..	Kishnaghur .	13,263	14,214	27,477	5	7	12	9·5	13·2	22·7	71	2		3	..		2	7	3·8	.	5·6	..	.	3·8	13·2	30·3	5	2	19·6	7·3	250
	Ranaghat ...	4,028	4,655	8,683		1	1	.	6·0	6·0	No male birth	...	..	1		..	..	1			6·0	..	..	.	6·0	6·0	1		12·9	..	No female death.
	Santipore	13,705	15,079	29,087	4	1	5	7·0	1·8	8·8	400	2	..	2			2	6	3·5	.	3·5	.		3·5	10·5	10·5	2	4	7·6	13·0	50
Jessore ...	Jessore	4,830	3,665	8,495	...	1	1		6·1	6·1	No male birth		.	2		..	.	2		...	12·2	...	...	.	12·2	67·3	1	1	10·8	14·2	100
Rajshahye ..	Rampore Beauleah	10,766	9,025	19,791	6	11	17	15·8	28·9	44·7	54	5	.	9	1		1	16	13·1	..	23·6	2·6		2·6	42·0	26·3	4	12	19·3	63·1	33
Darjiling ...	Darjiling*	5,029	2,047	7,076	2	1	3	13·0	6·5	19·6	200		1	2	1	.	2	6		6·5	13·0	6·5		13·0	39·1	13·0	3	3	31·0	52·9	100
Dacca ...	Dacca	42,782	37,379	80,161	12	9	21	7·8	5·8	13·6	133	15	1	19	4	.	16	55	9·7	·6	12·3	2·6	.	10·4	35·7	25·9	35	20	42·5	27·8	175
	Naraingunj	7,105	5,456	12,561	5	2	7	20·7	8·3	29·0	250	2	.	1		..	4	7	8·3	.	4·1	...	...	16·5	29·0	49·7	2	5	13·7	52·5	40
Chittagong ..	Chittagong ...	13,340	8,793	22,133	3	3	6	7·0	7·0	14·1	100		.	3	2		1	6	.	..	7·0	4·7	..	2·3	14·1	16·4	5	1	19·5	5·9	500
Tipperah ..	Comillah	8,153	5,353	13,506	2	6	8	7·7	23·1	30·8	33	2	.	1			1	4	7·7	..	3·8			3·8	15·4	27·0	1	3	6·4	29·1	33
Patna ...	Patna City	78,762	81,475	160,237	28	16	44	9·1	5·2	14·3	175	6		11	8	1	10	36	1·9		3·6	2·6	·3	3·2	11·7	12·3	16	20	10·6	12·8	80
Gya ...	Gya	38,290	37,831	76,121	15	12	27	10·2	8·2	18·4	125	14		35	2	1	20	72	9·6	.	23·9	1·4	·7	13·6	49·2	43·0	32	40	43·5	55·0	80
Shahabad ...	Arrah	21,160	22,005	43,165	6	5	11	7·2	6·0	13·2	120		1	3			.	4		1·2	3·6				4·8	8·3	2	2	5·0	4·6	100
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	5	10	15	6·1	12·1	18·2	50	..		5	8	1	6	20			6·1	9·7	1·2	7·3	24·3	9·7	8	12	18·0	31·7	66
Durbhunga ..	Durbhunga	33,774	32,322	66,096	18	15	33	14·2	11·8	26·0	120		1	14	7	.	3	30		·8	14·9	5·5	...	2·4	23·6	19·7	21	9	32·3	14·5	233
Sarun ...	Chupra	26,044	27,205	53,249	4	13	17	3·9	12·7	16·6	30			7			6	13	...	..	6·8		...	5·9	12·7	11·7	4	9	8·0	17·2	44
Bhagulpore...	Bhagulpore	29,640	27,813	57,453	23	32	55	20·8	29·0	49·8	71	1		8	.		21	30	·9	...	7·2			19·0	27·2	13·6	14	16	24·6	29·9	87
Monghyr ...	Monghyr	28,154	29,366	57,520	23	19	42	20·8	17·2	38·0	121		..	5	3		6	14	...	...	4·5	2·7	.	5·4	12·7	15·3	8	6	14·8	10·6	133
Purneah ...	Purneah	8,463	6,553	15,016	3	5	8	10·4	17·3	27·7	60	22	..	3		..	1	26	76·2		10·4		...	3·4	90·0	152·4	14	12	86·0	95·2	116
Puri ...	Puri	13,247	11,537	24,784	4	3	7	8·4	6·3	14·7	133	10	1	4	2		10	27	21·0	2·0	8·4	4·2	...	21·0	56·6	48·3	22	5	86·4	22·5	440
	Total ..	555,685	515,457	1,071,142	[illegible]	229	438	10·1	11·1	21·3	91	107	7	159	51	6	[illegible]	506	5·2	·3	9·1	2·5	·3	7·2	24·6	23·4	278	228	23·1	23·0	121

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

Districts.	Names of Municipalities.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		Deaths among—					Ratio per 1,000 of Population per Annum.					Deaths.										Ratio per 1,000 of Population per Annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	18	9	...	...	...	39·5	45·6	.	...	4	3	2	2	2	6	2	3	2	2	315·2	69·1	44·6	41·3	33·3	59·4	15·1	23·5	42·4	70·2
Midnapore	Midnapore	...	12	4	...	...	...	24·1	28·8	...	...	1	3	.	...	1	1	1	6	1	2	70·0	66·3	...	...	16·5	7·1	9·4	83·7	25·2	56·8
Hughli	Hughli and Chinsurah ...	...	8	5	...	...	...	13·1	38·1	...	...	1	3	3	.	...	3	2	...	...	1	55·1	58·5	34·8		...	20·3	14·8	...	...	20·7
Serampore	Serampore	...	13	3	...	...	...	26·8	166·3	...	...	2	3		...	1	3	1	2		4	146·5	86·4	...	...	23·6	29·0	10·5	30·8	...	149·5
	Utterpara	...	3	...	...	...	...	29·3		...	...	1	.		.	1	.	1				323·0	...		.	119·2	...	49·0	...	...	...
Howrah	Howrah	...	27	12	.	1	...	20·6	30·4	...	215·8	4	6	2	2	4	5	5	5	1	6	100·8	56·3	16·5	15·8	23·4	11·5	13·5	22·1	9·5	83·2
	Bali	...	7	2	...	...	...	27·1	79·3	.	...		3	...	...	...		...	2	1	3	...	156·2	...	...	...	...	.	53·7	49·6	213·1
Nuddea	Kishnaghur	...	6	1	...	...	...	116·7	6·3	...	...	1	1			...	1	1	2	1	...	104·8	21·0	...	...	...	10·8	12·1	31·9	24·7	...
	Ranaghat	...	1		...	...	...	7·1		...	...	1	.	...	...	.	...	...		.	.	251·2	...	...	...	...	...	...	...	...	...
	Santipore	...	5	1	...	...	...	12·6	5·8	...	...	3	.	...	...	1	1	...	...	...	1	184·6	...	...	...	23·4	10·6	...	...	...	26·5
Jessore	Jessore	...	1	1	...	...	...	11·5	13·6	...	...	...	1	.		1	.	.	...	...	...	...	105·3	...	...	71·0	.	...	...	...	...
Rajshahye	Rampore Beauleah	...	7	9	...	...	...	36·7	47·7	...	...	1	3	1	2		...	3	3	2	1	128·1	110·0	25·0	57·7	...	...	43·3	63·6	83·8	54·0
Darjiling	Darjiling	...	6	...	...		...	67·9	...	...	...	1	2	...	...	...	1	1	1	...	...	429·8	161·7	...	...	...	26·0	36·3	75·1	...	...
Dacca	Dacca		35	20	...	...	...	45·2	26·4		...	5	4	5	...	1	11	8	3	6	12	137·0	28·2	26·2	...	7·1	37·3	35·7	19·6	65·9	112·0
	Narainganj	...	3	4	...	...	...	24·7	33·8		...	2		1	...	...	1	1	...	1	1	372·8	...	39·4	...	...	19·5	24·3	...	66·4	79·8
Chittagong	Chittagong		.	5	1	...	...	...	17·0	216·7	...	...	.	...	...		1	1	1	2	1	...	...	...	...	...	11·2	15·6	23·0	95·9	65·3
Tipperah	Comillah	...	1	3	...	...	...	8·7	21·1	...	...	.	.	1	.	1	1	...	.	...	1	...	...	31·9	...	41·3	18·8	...	...	...	76·7
Patna	Patna City	.	29	7	...	...	...	12·7	8·9	...	...	2	5	2	2	2	4	2	6	2	9	24·1	17·8	6·2	7·2	9·3	7·2	4·5	16·6	7·4	33·9
Gya	Gya	...	68	9	...	...	...	54·6	29·1	...	...	12	6	1	2	2	8	9	7	8	17	348·6	49·1	7·4	15·5	19·9	28·3	36·8	37·2	63·3	171·8
Shahabad	Arrah	...	3	1	...	...	...	5·0	4·2	...	...	1	...	1	...	1	...	...	1	...	...	40·4	...	10·1	...	16·5	...	...	11·1	...	...
Mozufferpore	Mozufferpore	.	11	9	...	...	...	19·0	37·5	...	...	5	3		2		1	4	...	...	5	272·3	38·6	...	26·3	...	6·1	29·8	...	...	106·8
Durbhanga	Durbhanga	...	19	11	...	...	...	20·4	32·6	...	...	8	7	4	2	.	...	1	2	...	6	267·2	47·8	26·6	18·7	...	...	4·7	14·0	...	97·7
Sarun	Chupra	...	8	5	...	...	...	10·1	21·6	...	...	...	2	2	2	...	1	1	1	2	2	...	19·6	16·9	20·2	...	5·5	6·4	8·3	24·7	29·9
Bhagulpore	Bhagulpore	...	24	6	...	...	...	31·4	18·1	...	...	12	5	.	...	1	4	.	1	2	5	522·6	48·0	...	...	12·4	19·0	...	8·1	24·4	72·2
Monghyr	Monghyr	...	13	1	...	...	...	15·1	4·1	...	...	6	...	...	...	2	3	...	.	1	2	210·1	...	...	...	27·5	15·1	...	...	13·1	29·0
Purneah	Purneah	...	9	17	...	...	...	51·0	156·1	...	...	...	2	5	3	3	3	3	1	3	3	...	86·1	164·6	130·5	156·9	47·5	54·7	28·0	166·5	193·3
Puri	Puri	...	26	1	...	...	...	55·1	247·6	...	.	4	.	...	2		6	6	4	3	2	686·5	...	...	55·4	...	59·1	77·0	61·6	69·9	57·6
	Total ...	...	358	146	1	1	...	24·3	25·7	25·7	76·8	77	62	30	21	24	65	53	50	38	86	156·7	34·5	14·0	11·3	15·3	15·9	15·6	20·6	25·3	67·5

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 20th April 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 20th April 1889.			Week ending Saturday, the 21st April 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs	No.	Mds.	Rs.
Rice and paddy	204	69,950	1,158	285	77,995	1.314
Jute	13	5,900	108	14	5,850	49
Firewood	118	47,965	730	79	42,000	542
Other articles	700	1,66,410	2,593	551	1,35,700	1,959
Total ..	1,035	2,90,225	4,589	929	2,61,545	3,864

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th April 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	279,449	2,91,146 15 0	26,70,167 10	6,08,643 2 0	16,639 9 0	9,16,429 10 0	66,706½	93,780½	160,486½
Or per mile of railway ...	.	192 5 4	.	402 1 3	10 15 10	605 6 5	.. ...	... ..	....
For previous 14 weeks of half-year	3,615,768	42,26,786 13 0	3,87,81,646 20	84,44,893 15 4	2,20,992 15 8	1,28,92,672 12 0	917,902¼	1,340,166¾	2,258,009¼
Total for 15 weeks ..	3,895,017	45,17,933 12 0	4,14,51,813 30	90,53,536 1 4	2,37,632 8 8	1,38,09,102 6 0	984,608¾	1,433,947¼	2,418,556
Comparison.									
Total for corresponding week of previous year .	260,736	2,76,331 15 6	28,05,846 20	6,77,277 9 0	22,558 15 9	9,76,168 8 3	58,435	1,12,173	170,608
Per mile of railway corresponding week of previous year		182 8 9	.....	447 6 8	14 14 6	644 13 11	......	......	.
Total to corresponding date of previous year	4,003 247½	46,82 905 14 4	4,24,50,586 20	98,63,100 13 10	3,42,132 7 11	1,48,88,139 4 1	993,982	1,575,646	2,569,628

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1888 to 14th April 1888.			Total receipts from 1st April 1889 to 13th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	9,76,169	645	1,513¾	9,16,430	605	1,513¾	19,14,183	632	1,513¾	17,51,996	579	......	1,62,487

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 13th April 1889, on 57½ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried.	Receipts			Coaching.	Merchandise	Total.
		Rs A P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,366	7,771 12 0	43 049 10	3,033 8 0	60 9 0	10,865 13 0	1,924½	604	2,528¼
Or per mile of railway .	251	13[illegible] 13 11	75[illegible] 30	53 0 7	1 0 11	189 15 5	.. .	.. ..	......
For previous 14 weeks of half-year	196,664	1,08,539 14 0	4,99,808 0	29,579 11 0	531 9 10	1,38,651 2 10	26,525¼	7,632	34,157¼
Total for 15 weeks ...	211,030	1,16,311 10 0	5,42,857 10	32 613 3 0	592 2 10	1,49,516 15 10	28,449¾	8,236	36,685¾
Comparison.									
Total for corresponding week of previous year	15,147½	6,929 4 2	45,576 10	3,725 15 0	39 2 6	10,694 5 8	1,621	1,349	2,970
Per mile of railway corresponding week of previous year .	265	121 2 3	797 0	65 2 3	0 10 11	186 15 5	..		......
Total to corresponding date of previous year	125,633	2,21,668 7 8	5,43,082 20	36,659 13 0	695 8 6	1,59,023 13 2	27,226	9,602	36,828

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1888 to 14th April 1888			Total receipts from 1st April 1889 to 13th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	10,694	187	57¹	10,866	190	57½	19,988	175	57½	22,190	194	2,202	....

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 13th *April* 1889, *on* 12 *miles open.*

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	2,870	475 8 0	17,763 30	471 6 0	11 2 0	958 0 0	351½	142	493½
Or per mile of railway ..		39 10 0	..	39 4 6	0 14 10	79 13 4	......	......	......
For previous 14 weeks of half-year	38,302	6,474 1 0	2 55,628 20	5,804 10 0	132 15 8	12,411 10 8	4,855½	1,912½	6,768
Total for 15 weeks ..	41,172	6,949 9 0	2,73,392 10	6,276 0 0	144 1 8	13,369 10 8	5,207½	2,054½	7,261½
Comparison.									
Total for corresponding week of previous year	2,915	543 10 6	21,774 10	448 3 0	6 4 0	998 1 6	343	150	493
Per mile of railway corresponding week of previous year	..	45 4 11	...	37 5 7	0 8 4	83 2 10	.....	......	......
Total to corresponding date of previous year	43 724	7,420 10 6	3,22,684 20	6,762 4 0	155 5 9	14,338 4 3	5,030	2,365	7,395

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th April 1888			Receipts for week ending 13th April 1889			Total receipts from 1st April 1888 to 14th April 1888.			Total receipts from 1st April 1889 to 13th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	998	83	12	958	80	12	1,864	78	12	1,812	76	..	52

TARKESSUR BRANCH RAILWAY

Approximate Return of Traffic for week ended 13th *April* 1889, *on* 22½ *miles open.*

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried	Receipts			Coaching.	Merchandise	Total.
		Rs A. P	Mds. S.	Rs A P.	Rs A P	Rs. A P			
Total traffic for the week .	36 075	10,703 7 0	7 013 20	251 6 0	5 8 0	10,960 5 0	1,190	64	1,254
Or per mile of railway .		481 0 10		11 4 9	0 4 0	492 9 7		...	......
For previous 14 weeks of half-year	313,903	82,124 7 0	1,36,762 20	4,886 15 0	93 3 10	87,104 9 10	12,656	883	13,539
Total for 15 weeks ..	349,981	92,827 14 0	1,43,776 0	5,138 5 0	98 11 10	98,064 14 10	13,846	947	14,793
Comparison									
Total for corresponding week of previous year	41,663	12,353 9 1	5,844 30	184 0 0	5 12 0	12,543 5 1	1,230	46	1,276
Per mile of railway corresponding week of previous year	. .	555 3 5		8 4 4	0 4 2	563 11 11	.	...	... .
Total to corresponding date of previous year ..	347,080½	92,293 0 11	1,30,029 10	4,707 15 0	107 13 6	97,108 13 5	13,734	1,226	14,960

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1888 to 14th April 1888			Total receipts from 1st April 1889 to 13th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
22½	12,543	564	22½	10,960	493	22½	21,255	478	22½	18,286	411	......	2,969

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 6th April 1889, *on* 673 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ..	a192,600	80,560 0 0	4,88,990 0	76,250 0 0	15,390 0 0	1,72,200 0 0	22,330	23,824	46,154
Or per mile of railway	286	120 0 0	727 0	113 0 0	†5 0 0	238 0 0	...	..	.....
For previous 13 weeks of half-year	1,895,806	10,23,967 0 0	66,04 518 0	11,36,032 0 0	2,22,843 0 0	*23,82,842 0 0	277,049	320,723	597,772
Total for 14 weeks ..	2,088,196	11,04,527 0 0	70,93,508 0	12,12,282 0 0	2,38,233 0 0	25,55,042 0 0	299,379	344,547	643,926
Comparison.									
Total for corresponding week of previous year	130,921	59,255 0 0	5,04,216 0	70,975 0 0	10,646 0 0	1,40,876 0 0	21,351	24,324	45,675
Per mile of railway corresponding period of previous year ..	195	88 0 0	740 0	105 0 0	†2 0 0	195 0 0	.	......	.. ..
Total to corresponding date of previous year ...	2,011,147	10,76,972 0 0	78,33,406 0	11,21,107 0 0	2,29,619 0 0	24,27,698 0 0	309,881	318,030	657,920

* Audited up to week ending 2nd March 1889.
† Excluding steam-boat earnings.
a Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888.			Total receipts from 1st April 1888 to 6th April 1889			Total increase in 1888-89.	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,40,876	209	673	1,72,200	256	673	1,40,876	209	673	1,47,600	219	6,724	......

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A P	Rs. A P.			
Total traffic for the week ...	a35,410	10,610 0 0	63,060 0	4,170 0 0	90 0 0	14,870 0 0	3,597	2,075	5,672
Or per mile of railway . .	283	85 0 0	504 0	33 0 0	1 0 0	119 0 0		...	......
For previous 13 weeks of half-year	†360,696	1,32,181 0 0	†7,22 482 0	38,983 0 0	4,292 0 0	*1,75,456 0 0	45,821	25,400	71,221
Total for 14 weeks ...	396,106	1,42,791 0 0	7,85,542 0	43,153 0 0	4,382 0 0	1,90,326 0 0	49,418	27,475	76,893
Comparison									
Total for corresponding week of previous year	25,596	8,024 0 0	61,733 0	3,421 0 0	228 0 0	11,673 0 0	3,423	2,031	5,454
Per mile of railway corresponding period of previous year ..	205	64 0 0	494 0	27 0 0	2 0 0	93 0 0	..	.....	.....
Total to corresponding date of previous year	373,457	1,28,280 0 0	7,55,337 0	46,600 0 0	3,539 0 0	1,78,419 0 0	46,909	27,722	74,631

* Audited up to week ending 2nd March 1889.
† Ditto ditto 16th February 1889.
a Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888.			Total receipts from 1st April 1888 to 6th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,673	93	125	14,870	119	125	11,673	93	125	12,740	102	1,073	......

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th April 1889, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,090	4,720 0 0	8 120 0	730 0 0	390 0 0	5,840 0 0	2,502	602	3,104
Or per mile of railway .. .	175	55 0 0	94 0	9 0 0	4 0 0	68 0 0	...	...	
For previous 13 weeks of half-year	189,610	63,107 0 0	1,85,360 0	14,309 0 0	2,327 0 0	*79,743 0 0	30,844	8,654	39,498
Total for 14 weeks ...	204,700	67,827 0 0	1,93,480 0	15,039 0 0	2,717 0 0	85,583 0 0	33,346	9,256	42,602
Comparison									
Total for corresponding week of previous year	14,120	4,295 0 0	2,988 0	577 0 0	154 0 0	5,026 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year	164	50 0 0	35 0	6 0 0	2 0 0	58 0 0		..	
Total to corresponding date of previous year	195,291	60,845 0 0	1,82,345 0	13,250 0 0	2,591 0 0	76,686 0 0	34,807	8,649	43,456

* Audited up to week ending 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888			Total receipts from 1st April 1888 to 6th April 1889.			Total increase in 1888-89	Total decrease in 1888-89
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs	Rs
86	5,026	58	86	5,840	68	86	5,026	58	86	4,308	50		718

ASSAM-BEHAR STATE RAILWAY

PURNEAH SECTION

Approximate Return of Traffic for week ended 6th April 1889, *on* 38 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated)	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,610	1,280 0 0	22,480 0	1,920 0 0	40 0 0	3,240 0 0	532	532	1,064
Or per mile of railway	69	34 0 0	592 0	50 0 0	1 0 0	85 0 0		.. .	
For previous 13 weeks of half-year	36,580	14,543 0 0	3,41,510 0	22,679 0 0	2,354 0 0	*39 576 0 0	6,788	6,788	13 576
Total for 14 weeks ..	39,190	15 823 0 0	3,63,990 0	24,599 0 0	2,394 0 0	42,816 0 0	7,320	7,320	14,640
Comparison.									
Total for corresponding week of previous year	3,041	1,031 0 0	31,302 0	2,519 0 0	17 0 0	3,567 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	78	26 0 0	804 0	65 0 0		91 0 0	.. ...	..	..
Total to corresponding date of previous year .. .	43,443	14,093 0 0	3,77,036 0	28,283 0 0	638 0 0	43,914 0 0	7,644	7,644	15,288

* Audited up to week ending 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 7th April 1888.			Receipts for week ending 6th April 1889.			Total receipts from 1st April 1887 to 7th April 1888.			Total receipts from 1st April 1888 to 6th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs	Rs.	Rs.
39	3,567	91	38	3,240	85	39	3,567	91	38	2,777	73	.... .	790

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 13th April 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,823	982 0 0	7,644 0	545 0 0	10 0 0	1,537 0 0	509	254	763
Or per mile of railway	104	36 0 0	281 0	20 0 0	....	56 0 0	......	......	......
For previous 13 weeks of half-year ..	48,248	17,803 0 0	1,74,728 0	10,233 0 0	220 0 0	28,256 0 0	6,981	6,940	13,921
Total for 14 weeks ...	51 071	18,785 0 0	1,82,372 0	10,778 0 0	230 0 0	29,793 0 0	7,490	7,194	14,684
Comparison.									
Total for corresponding week of previous year ..	3,122	1,149 0 0	9,736 0	685 0 0	15 0 0	1,849 0 0	509	254	763
Per mile of railway corresponding week of previous year	115	42 0 0	357 0	25 0 0	1 0 0	68 0 0	.	...	......
Total to corresponding date of previous year	49,196	18,178 0 0	2,63,318 0	14,495 0 0	336 0 0	33,009 0 0	7,635	7,502	15,137

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889			Total receipts from 1st April 1888 to 14th April 1888			Total receipts from 1st April 1889 to 13th April 1889			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs
27½	1,849	68	27½	1,537	56	27½	3,982	73	27½	3,172	58	. .	810

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 13th April 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P	Mds s.	Rs A. P.	Rs. A. P	Rs A. P			
Total traffic for the week on 273 miles open ..	50,871	18,269 0 0	1,55,823 0	14,552 0 0	3,468 0 0	36,289 0 0	5,576	4,558	10,134
Or per mile of railway	186	67 0 0	571 0	53 0 0	3 0 0	123 0 0*	..	.	... ..
For previous 13 weeks of half-year	580,743	2,23,489 0 0	18,78,549 0	1,73,550 0 0	42,762 0 0	4,39,801 0 0	76,918	75,414	152,332
Total for 14 weeks ..	632,614	2,41,758 0 0	20,34,372 0	1,88,102 0 0	46,230 0 0	4,76,090 0 0	82,494	79,972	162,466
Comparison.									
Total for corresponding week of previous year on 259 miles open .	43,775	15,687 0 0	1,28,410 0	15,608 0 0	2,521 0 0	33,816 0 0	5,846	5,223	11,069
Per mile of railway corresponding week of previous year	169	61 0 0	496 0	60 0 0	1 0 0	122 0 0*	.....	.....	......
Total to corresponding date of previous year .	640,224	2,54,208 0 0	29,66,332 0	3,27,842 0 0	43,557 0 0	6,25,607 0 0	94,289	122,232	216,521

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 14th April 1888			Receipts for week ending 13th April 1889			Total receipts from 1st April 1888 to 14th April 1888			Total receipts from 1st April 1889 to 13th April 1889			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs	Rs.	Rs.	Rs.
259	33,816	131	273	36,289	133	259	67,826	131	273	70,989	130	3,163	....

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 24th April 1889.

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee rops.	REMARKS.
RAJSHAHYE DIVISION—*concluded*.								
Bogra ..	Bogra	1,452	913	73	Musoor ... ... Khesari ... ... Linseed ... ... Mustard ... ... Wheat ... ... Til ... ... Gram ... .. Barley ... ... Maskalai ... ... Kherach	13 annas 13 " 7 " 12 " 7 " 9 " 13 " 6 " 13 " 8 "	12 annas 12 " 8 " 11 " 6 " 8 " 12 " 8 " 12 " 7 "	(1) The rain of the 30th and 31st January 1889 has materially benefited most of the *rubbee* crops, but in the west of the district some damage was caused by hail. (2) Owing to want of seasonable rain the outturn of these crops was reduced in both the years.
	District Total ..	1,452	913	73	......	... .	... ..	
Pubna	Sudder	890	667	426	Pulses ... ... Oilseeds .. ... Wheat ... ... Barley ... ... Cheena	8 annas 8 " 7 " 7 " 9 "	12 annas 12 " Not reported on last year.	(1) The deficiency is owing to unseasonable and insufficient rainfall.
	Serajgunge	957	718	287	Pulses ... ... Oilseed ... . Sunn	8 " 8 " 16 "	10 " 9 " Not reported on last year.	
	District Total ..	1,847	1,385	713	......	.. ...	.	
Darjeeling	The Terai	203	74	8	Mustard ... ... Onion ... .. Potato ... .. Peas	4 annas	2 annas.	
	Kurseong .	171	12	10	Urid ... ... Onion ... . Potato . ... Peas . . Mustard	4 "	2 "	Deficiency of rainfall at the sowing time.
	Kalimpong	486	54	20	Wheat ... Barley .. Peas .. Mustard .	14 "	12	Sufficiency of rainfall at the sowing time is the cause of the better outturn this year.
	Darjeeling	306						
	District Total	1,166	140*	38	......	7 "	5 "	
Julpigoree ...	Baikantpore pergunnah	417	208	34	Mustard .. ... Potato . ... Barley	8 annas 14 " 8 " ..	12 annas. 14 " 12 " ...	Deficiency of rainfall in the months of August and September has affected the current year's crops.
	Boda pergunnah ..	402 72	280	32	Wheat ... .. Pulses ... ... Kaun ... Potato . Mustard	8 " .. 6 " . 12 annas 12 " ...	8 " .. 4 " 8 " 10 " 12 " ..	The rain which fell in the latter end of January improved the prospects of these crops.
	Patgram pergunnah.	86'88	65	6	Wheat ... . Pulses ... .. Kaun ... Potato ... Mustard ...	4 " . . 4 " .. 10 annas 12 " ..	4 " 4 " . 6 " .. 8 " .. 12 "	
	Mynagoree	524	187'5	10	Mustard ... .. Potato .. .. Pulses	12 " .. 12 " . 11 " ...	11 " 11 " 11 "	
	Pallacotta ..	742	300	36	Mustard ... ... Pulses ... Wheat	16 " 16 " 12 " ..	14 " .. 16 " .. 12 " .	
	Alipore .	517	180	17	Mustard .. .. Pulses ... .. Wheat	16 " ... 16 " 10 "	14 " ... 10 " . 10 " ..	
	Bholka ..	132	43	5	Mustard	16 " ...	14 " ..	
	District Total .	2,851'60	1,353'57	140		....	......	
DACCA DIVISION.								
Dacca .	Sudder	1,266	633	102	Mustard . .. Peas, moong, and Masur. Maskalai ... .. Khesari ... . Chillis . Barley ... ... Cheena ... ... Kaun .. .. Safflower	13 annas .. 11 " . 11 " ... 11 " . 11 " . . 14 " 10 " . . 10 " . . 10 " ...	10 annas 12 " 12 " . . 12 " . . 13 " ... 13 " ... 12 " 12 " 12 "	Insufficiency of rain in December and January has affected the outturn of crops.
	Naraingunge ...	641	321	83	Khesari, masur, peas, mustard keora, cheena, kaun.	10 "	12 "	The current year's crops have suffered to a certain extent from want of rain.
	Munshigunge ...	401	200	80	Mustard .. ... Pulses . Cheena . . Kaun ..	10 " 10 " 12 " 12 "	10 " 12 " 12 " 12 "	Deficiency of rainfall has affected the current year's crop, as it did that of the previous year.
	Manickgunge ...	480	366	73	Mustard ... ... Peas ... . Maskalai . ... Khesari	16 " 6 " 10 " 4 "	12 " 14 " 10 " 6 "	Deficiency of rainfall this year has affected the outturn of all crops, excepting that of mustard, which flourished in consequence of the early cessation of rain that caused the waters to subside earlier.
	District Total ...	2,797	1,520	338		.....	.. .	

* This excludes the area under tea cultivation.

DACCA—*concluded.*

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
Furreedpore	Sudder	860	602	120	Mustard Peas Moong Khesari Kalai Musoor Gram Barley	8 annas	10 annas	The current year's crop has suffered still more than the preceding year from deficiency of timely rain.
	Goalundo	428	321	160 5	Mustard, rape seed, linseed, peas, gram, moong, musoor, kalai, khesari, barley, wheat, coriander seed, cheena.	6 „	12 „	The decrease is due to deficiency of rainfall.
	Madaripore	976	652	105	Mustard, khesari, miscellaneous.	12 „	10 „	
	District Total	2,264	1,575	885·5	....	.		
Backerguuge	Burisal	1,111	615	80	Kalai, moong, red pepper, til, melon, peas, kachu &c. Mustard, musoor	9 annas 18 „	10 annas 10 „	The poor outturn of this year's crops is mainly due to the deficiency of rainfall.
	Perozepore	692	605	12	Boro dhan Musoor	14 „ 18 „	14 „ 14 „	
	Patuakhali	1,623*	231	3	Moong Musoor	14 „ 18 „	14 „ 14 „	Musoor and mustard have been already gathered, and have yielded a bumber crop.
	Bhola	615	300	15	Chillis Khesari Linseed	8 „	11 „	
	District Total	4,041	1,751	110	.. ...		..	
Mymensingh	Sudder	1,849	1,061	250	Mustard, kalai (pulses) miscellaneous.	12 annas	11 annas	
	Kishoregunge	744	350	150	Mustard, kalai (pulses).	8 „ 12 „	8 „ 10 „	
	Netrokona	1,389	694	57	Mustard Pulses Miscellaneous	14 „ 15 „ 13 „	16 „ 15 „ 12 „	Want of sufficient rainfall in proper time.
	Jamalpur	1,244	930	200	Mustard Pulses	10 „ 8 „	10 „ 10 „	Want of timely rain affected the crops this year as well as previous year
	Attea	1,061	780	480	Mustard Pulses	13 „ 13 „	18 „ 18 „	Deficiency of rainfall did harm to the present year's crops.
	District Total	6,287	3,815	1,137	..	...	.	

CHITTAGONG DIVISION.

1	2	3	4	5	6	7	8	9
Tipperah	Commillah or Sudder.	1,142	912	467	Mustard Onions Chillis Coriander seed Khesari Moong Kalai Musoor Linseed	11 annas 10 „ 11 „ 10 „ 11 „ 10 „ 10 „ 10 „ 10 „	16 annas 14 „ 15 „ 13 „ 14 „ 14 „ 14 „ 14 „ 14 „	The outturn was much less than the previous year for want of rain.
	Brahmanberia	709	553·68	110·6	Pulses Mustard Til Chillis Onions Garlic Turmeric Coriander seed	16 „ 18 „ 14 „ 16 „ 14 „ 14 „ 12 „ 12 „	16 „ 8 „ 11 „ 10 „ 9 „ 10 „ 12 „ 10 „	The last year's crops were damaged by excessive rain when they were ripe
	Chandpore	580	410	60	Khesari, kalai Til Chillis Moong	12 „ 13 „ 16 „ 14 „	16 „ 16 „ 16 „ 16 „	Last year the rainfall was timely and sufficient in this sub-division hence better outturn.
	District Total	2,491	1,875 68	637 6	...	..		
Noakholly	Sudder	1,298	618	175	Khesari Kalai	11 annas 8 „	12 annas 13 „	The flood of 6th October last and the deficiency of rainfall afterwards affected the *rubbee* crops of the current year.
	Fenny	343	75	36	Moong Khesari	10 „ 8 „	10 „ 12 „	
	District Total	1,641	723	211		9 „	12 „	

* Includes the Sunderban area which was excluded in former returns.

1	2	3	4	5	6	7	8	
DISTRICT.	Sub-division.	Total area of sub-division in square miles	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				CHITTAGONG DIVISION—*concluded.*				
Chittagong ...	Sudder	1,630	611·25	152·8	Chillis ... ... Kalai ... Khesari . .. Moong ... .. Mustard ... ... Sunn . ... Sweet potato Gourds . . Melons . . ... Kachoo ... .. Til	6 annas 6 ,, 6 ,, 4 ,, 8 ,, 6 ,, 12 ,, 7 ,, 6 ,, 10 ,, 6 ,,	8 annas 12 ,, 12 ,, 8 ,, 12 ,, 10 ,, 12 ,, 14 ,, 12 ,, 14 ,, 10 ,,	The outturn is poor for want of sufficient rain.
	Cox's Bazar ...	937	633·68	73·76	Chillis ... .. Brinjal .. .. Onions	10 ,,	16 ,,	Continued drought from October to date is the cause of the short outturn
	District Total ...	2,567	1,244·93	226·56	.....		... ..	
Chittagong Hill Tracts.	Sudder	3,583·5, of which 1,052·5 are reserved forests.	37·45 jum land 7 ploughed land	14·7	Cotton ... .. Til ... ... Mustard	4 ,,	12 ,,	Cotton and til have been greatly affected by untimely heavy showers, and their outturn is estimated to be four annas. Want of rain has greatly retarded the growth of mustard.
	Sungoo ...	1,835·5, of which 362·3 are reserved forests.	18·76 of jum land. 3·8 ploughed land.	7·3	Cotton . . Til . ... Mustard	4 ,,	12 ,,	
	District Total ..	5,419	67·01	22	.. ...		..	
				PATNA DIVISION.				
Patna	Bankipore	617	456	178	Khesari . . Musoor Gram Peas Wheat . Barley .	12 annas	12 annas	For want of rain at the sowing time the crops did not germinate well. The rain of January did immense good to rubbee crops, but the hail damaged the peas and musoor.
	Barh	26	40·5	312	Gram . Khesari ... Barley Wheat . . Musoor .. .. Peas	12 ,,	8 ,,	Timely rainfall improved the prospects of crops, and the yield was expected to be good but damage done by rain in February 1889 has diminished the outturn anticipated
	Dinapore	143	116	58	Gram Barley Peas . Wheat ... .. Musoor ...	13 ,,	6 ,,	The present state of the crops is more promising than that of the past year.
	Behar	793	575	392	Wheat Barley . Gram Peas Mustard Arhar . . Khesari Linseed Mustard .	9 ,,	10 ,,	This year the area under rubbee cultivation was greater than that of last year, but repeated rainfalls accompanied by hailstorms have damaged the crops. Hence the outturn will be less than that of last year
	District Total	2,079	1,552	940		12 ,,	9 ,,	
Gya ...	Sudder	1,839	1,434	375	Khesari Wheat . Gram Barley . . Peas Musoor Linseed and other oilseeds	10 annas	10 annas	Damaged partly by want of rain at the sowing time and partly by excess of rain and hail at the reaping time
	Nowada	1,020	612	122	Wheat ... Barley Gram Peas . Musoor . Khesari . Linseed and mustard.	10 ,,	10 ,,	
	Jehanabad	607	504	208	Khesari ... Wheat . Gram .. .. Barley Peas .. Musoor	8 ,,	14 ,,	
	Aurungabad ..	1,246	747	448	Wheat Barley . . . Gram Linseed Musoor	14 ,,	12 ,,	
	District Total	4,712	3,297	1,153	.	.	..	
Shahabad	Arrah .	915		280	Gram .. Peas Barley . Oats Linseed ... . Mustard . ... Wheat . Cotton Musoor Khesari .. ... Arhar . Safflower	12 annas	12 annas	The deficiency of the outturn during the current year is mainly due to want of moisture in the land during the sowing time on account of the failure of Hatya rain

PATNA DIVISION—*continued.*

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
Shahabad ...	Buxar ...	656	563	250	Wheat ... ... Barley ... ... Gram ... .. Oats ... ... Arhar ... ... Khesari ... . Musoor . . Oilseeds, including mustard. Linseed and castor seed.	12 annas	12 annas	The deficiency of the outturn during the current year is mainly due to want of moisture during the sowing time on account of the failure of Hatya rain.
	Sasseram	1,493	687	276	Wheat ... .. Peas ... ... Gram	8 ,,	8 ,,	Want of rain at the sowing season retarded the cultivation of rubbee, and crops thus sown late did not germinate well or want of moisture. They suffered partially from hail-storm.
	Bhabuah	1,301	976	300	Wheat ... . Gram ... ... Peas ... ... Barley	4 ,,	8 ,,	The crops were affected by deficient rainfall.
	District Total	4,365	3,004	1,106	.....	......	. . .	
Durbhunga...	Sudder ..	1,222	929	295	Barley	8 to 12 annas.	8 annas	The deficiency in outturn is attributed to the want of rain in November and December, which reduced the area sown and retarded the growth of the plants. The rainfall in January, however, has done great good to the crops except arhar, which has been somewhat damaged by hail and rain in the beginning of February.
					Wheat	8 to 12 annas.	8 ,,	
					Gram	8 ,,	14 ,,	
					Arhar . .	12 ,,	20 ,,	
					Mustard	12 to 16 annas	14	
					Linseed	12 to 14 annas	12 ,,	
	Tajpur . .	764	600	276	Wheat ... ... Barley .. ... Peas ... ... Khesari .. . Arhar	13 ,,	14 ,,	Owing to deficiency of rainfall rubbee crops were sown under unfavourable circumstances. The silt deposited by the Ganges flood in the dearah, however, went a long way towards improving the state of rubbee crops.
	Madhubani .	1,319	1,100	250	Wheat ... . Barley .. Mustard ... .. Arhar . . Gram . .. Linseed .. .	5 ,, 5 ,, 8 ,, 8 ,, 5 ,, 3 ,,	16 ,,	Short crop owing to the deficiency of rainfall at the time of sowing.
	District Total	3,335	2,029	821	......	.....	...	
Mozufferpore	Mozufferpore	1,218	960	580	Barley ... ... Wheat ... .. Gram ... .. Peas, khesari and moosoor. Oilseeds	12 annas	8 annas	Good rain at the end of January and February greatly benefited this season's crops.
	Hajipore ...	771	600	360	Barley ... .. Wheat ... .. Gram .. ... Arhar . ... Peas . ... Khesari ... Musoor	12 ,,	6 ,,	Ditto ditto.
	Sitamarhi .	1,014	700	250	Barley ... . Wheat ... .. Gram ... ... Arhar . Khesari and musoor. Oilseeds	10 ,,	9 ,,	At the beginning of the season the crops suffered from want of moisture in the soil.
	District Total ...	3,003	2,320	1,190	......	......	.. ...	
Sarun .	Sudder	998	850	315	Barley .. ... Wheat .. .. Gram . ... Arhar ... ... Peas ... ... Khesari . .. Musoor ... Linseed ... .. Oilseed ... . . Oats	16 ,,	12 ,,	Owing to drought in the beginning of the season, sowing was carried on with considerable difficulty, and lands in which irrigation was impracticable were left unsown; but on the other hand most of the lands in which paddy failed were sown with rubbee. Plentiful rain later on facilitated completion of sowing and improved its prospect to such an extent that a bumper crop was expected, but too much rain and some hail in January and February damaged it in some places, and reduced the estimate to 16 annas.
	Sewan	853	750	330	Barley ... ... Wheat .. .. Arhar .. . . Gram ... . Musoor ... Peas . . Oats	15 ,,	18 ,,	On account of deficiency of rainfall in the beginning, the outturn this year is rather less favourable than last year The late rains, however, have improved the crops.
	Gopalgunge	771	581	185·5	Wheat ... ... Barley ... ... Peas ... ... Gram ... ... Musoor .. Arhar ... .. Keroo ... . Khesari	12 ,,	10 ,,	
	District Total	2,622	2,181	830·5	...	.	.. ...	

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Name of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				PATNA DIVISION—*concluded.*				
Chumparun	Sudder ...	1,518	1,022	662	Wheat ... Barley .. Mustard Linseed and other oilseeds. Oat, gram, peas, musoor, khesari, arhar.	7 annas	11 annas	The small outturn of the present year is due to want of sufficient moisture in the land at the time the crops were sown, and total absence of rain up to 23rd January, which stunted the growth and brought about failure in places. Prospects were improved to some extent by rainfall in the latter end of January.
	Bettiah ...	2,013	1,513	550	Wheat ... Linseed .. Mustard ... Barley ...	12 "	8 "	The outturn of the current year is likely to be better than was previously estimated owing to timely rainfall in January and February last.
	District Total ...	3,531	2,535	1,212	...	.	.	
				BHAGULPORE DIVISION.				
Monghyr	Sudder ...	1,550	1,091	982	Wheat ... Barley .. Gram .. Peas ... Khesari .. Mustard ... Linseed . Arhar ...	12 to 14 annas	10 annas	The standing crop is promising well, though the late rain in January and in this month has injured it, especially the early sowings, to some extent. The outturn will be much better than the previous year. A 16-anna crop would have been obtained but for the abovementioned rain and hail which have damaged the crop in places to some extent.
	Beguserai	769	577	530	Wheat ... Barley ... Peas ... Gram ... Arhar . Musoor .. Khesari .. Mustard ... Linseed .. Chillis ... Oats .	12 to 14 annas	10 "	
	Jamui	1,593	1,062	637	Wheat .. Peas .. Musoor ... Khesari .. Barley . Gram . Arhar	12 annas	9 "	
	District Total	3,921	2,730	2,149	.			
Bhagulpore	Sudder ...	936	655	374	Wheat .. Barley ... Linseed .. Rape-seed . Mustard . Castor-seed Gram .. Peas .. Arhar .. Oats . Musoor . Khesari ...	8 annas 8 " 6 " 6 " 8 " 6 " 6 " 4 " 8 " 6 " 4 " 4 "	8 annas	The deficiency is due to early cessation of rain and to injury sustained from hail-storms in January and February 1889.
	Banka ...	1,185	888	106	Barley ... Wheat . ... Linseed . Gram Arhar ... Musoor .. Khesari .	8 to 10 annas.	12 "	Deficiency of rainfall in the beginning and excessive rainfall at the time of critical growth affected the crops.
	Mudehpurah	872	542	100	Wheat ... Mustard Linseed Arhar ..	7 " 14 " 7 " 9 "	4 " 10 " 8 " 10 "	The deficiency is caused by early cessation of rains.
	Soopul ...	1,275	956	230	Mustard ... Wheat ... Linseed . Arhar ... Barley ..	8 to 10 annas.	10 "	Deficiency of rain at the time of sowing is the cause of the poor outturn.
	District Total ...	4,268	3,041	819	...	....	... .	
Purneah	Sudder ...	2,572	1,929	371	Wheat ... Gram ... Mustard ... Arhar ... Kalai ... Khesari ... Musoor ...	12½ annas	12½ annas	Deficiency of rainfall at the first stage caused much injury to the crops.
	Arrareah ...	1,044	700	200	Wheat .. Oilseeds . Khesari . Arhar ... Musoor ...	14 "	15 "	
	Kishengunge	1,340	1,005	160	Khesari ... Musoor ... Kalai Gram .. Peas ... Moong ... Arhar Wheat mustard, linseed.	15 "	12 "	The rain in January benefited the crops.
	District Total .	4,956	3,634	731	. ...	.. .	.	
Maldah ...	Whole district ...	1,902	1,130	785	Wheat .. Barley Gram Kalai . Musoor . Oilseeds ..	12 annas 12 " 14 " 16 " 14 " 12 "	14 annas 14 " 16 " 18 " 16 " 12 "	The *rubbee* crops suffered to a certain extent from insects and want of timely rain, and they were also damaged to a considerable extent in some parts of the districts by a hailstorm.
	District Total .	1,902	1,130	785	......	......	..	

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Name of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				BHAGULPORE DIVISION—*concluded*.				
Sonthal Pergunnahs.	Deoghur	950	260	4·20	Gram Wheat Linseed Barley	8 annas	8 annas	Deficient rainfall caused the short outturn.
	Dumka	1,426	480	150	Mustard Surguja	12 ,,	12 ,,	Good rain fell in October-November.
	Godda	966	480	270·48	Wheat Barley Khesari Mustard	8 ,,	12 ,,	Deficient rain at sowing time and a storm with hails at the end of January.
	Rajmehal	740	370	116·55	Mustard Wheat Peas Linseed Barley	8 ,,	8 ,,	Drought at sowing time and hail at harvest.
	Jamtara	696	230	15·2	Surguja Til Arhar Kulthi	10 ,,	14 ,,	
	Pakour	683	346	102	Wheat Barley Gram Pulses Oilseeds	12 ,,	16 ,,	Heavy rain at the end of January with previous drought.
	District Total	5,461	2,160	658·52	..	.	......	
				ORISSA DIVISION.				
Cuttack	Cuttack	3,381	1,771 5	113·25	Biri Moong Kulthi Arhar Gram Burgudi	7 annas. 6½ ,, 9 ,, 7 ,, 6 ,, 9 ,,	9 annas. 8½ ,, 10 ,, 9 ,, 9 ,, 6 ,,	The decrease in the outturn of all the harvest except bargudi, is due to want of seasonable rainfall this year.
	Banki	110	60	12	Kulthi Moong Biri Mustard	9 ,, 12 ,,	6 ,, 6 ,,	The cultivation of the rubbee crops was more extensive this year than in the previous year, but the rainfall being scanty the outturn has been very poor.
	Kendrapara	1,005	448	67	Biri Moong Kulthi Arhar Burgudi Gram	14 ,,	10 ,,	There was an unusually heavy flood during the year, which caused a large amount of silt to be deposited in the lands. A bumper harvest would have been reaped had the rainfall been sufficient during the sowing season. The bad outturn in the previous year was chiefly due to the deficiency of rain.
	Jajpore	1,104	500	60	Biri Moong Kulthi Arhar	20 ,, 16 ,, 20 ,, 12 ,,	16 ,, 12 ,, 12 ,, 12 ,,	The good harvest of biri, moong, and kulthi is due to the deposit of silt after the floods of August 1888 and to rainfall in November.
	District Total	3,613	2,779·5	242 25	..	.	.	
Balasore	Balasore	1,158	670	15	Moong Biri Arhar Musoor Mustard Other sorts of rubbee.	12 annas	15 annas	The crops have suffered from want of rain at the beginning of the season.
	Bhuddruck	908	720	7	Arhar Moong Mustard Biri Khesari Miscellaneous	16 ,,	16 ,,	
	District Total	2,066	1,390	22	.	.	.	
Pooree	Sudder	1,530	719 90	73 75	Moong Kulthi Biri Gram Mustard Arhar Poshi Burgudi	7½ annas	7 annas	Owing to want of rain less land was sown with rubbee, and for the same reason the crop is poor.
	Khorda	990	415·80	62·25	Moong Kulthi Biri Arhar Gram Burgudi Castor Mustard Til	6 ,,	1[illegible] ,,	
	District Total	2,520	11,35·70	136	......	.	......	

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Name of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Same of previous year's rubbee crops.	REMARKS.
				CHOTA NAGPORE DIVISION.				
Hazaribagh...	Giridih	2,446	1,280	255	Wheat Barley Gram Mustard Til Soorguja Arhar Peas Khesari	7½ annas	8 annas	The decrease in outturn is due to early cessation of rains.
	Head-quarters ...	4,575	2,593	205	Wheat Barley Gram Linseed Arhar Mustard Til Khesri Surguja Peas Musoor	6 ,,	6 ,,	
	District Total ...	7,021	3,873	460	...	......	...	
Lohardugga	Palamow	4,260	1,500	800	Gram Wheat Barley Arhar Mustard	8 annas. 5 ,, 4 ,, 4 ,, 4 ,,	8 annas. 8 ,, 8 ,, 9 ,, 8 ,,	Deficient rainfall is the cause of poor outturn.
	Head-quarters ...	7,784	5,957	Not known	Gram Barley Mustard Wheat Khesari Arhar Linseed Mahua	6 ,, 6 ,, 5 ,, 8 ,, 8 ,, 8 ,, 4 ,, 8 ,,	8 ,, 8 ,, 8 ,, 7 ,, 8 ,, 10 ,, 4 ,, 8 ,,	The decrease in outturn is due to the deficient rain at the time of sowing.
	District Total ..	12,044	7,457	800		.	... ..	
Manbhoom ..	Govindpur ...	803	289	116	Gram Barley Wheat Biri Arhar Mustard	10 annas 10 ,, 10 ,, 10 ,, 12 ,, 8 ,,	2 annas 4 ,, 4 ,, 6 ,, 10 ,, 2 ,,	
	Head-quarters ..	3,344	1,203	787	Gram Barley Wheat Biri Arhar Mustard	8 ,, 10 ,, 10 ,, 18 ,, 12 ,, 7 ,,	3 ,, 5 ,, 5 ,, 12 ,, 12 ,, 12 ,,	
	District Total .	4,147	1,492	903		..	. .	
Singhbhoom ...	Kolhan Pergunnah	1,048 (District.)	779	83	Til Mustard Moong Khesari Gram Biri Linseed Kado Arhar Kulthi Surgooja Peas Musoor	8 annas	10 to 12 annas	Deficient rainfall affected the crops.
	Porahat ...	660	198	24	Mustard Til Moong Gram Biri Kado Arhar Kulthi Peas Musoor	8 ,,	10 to 12 annas.	Ditto ditto.
	Dhalbhoom ...	1,147	458	17	Moong Til Surgooja Mustard Castor-seed Linseed	4 ,,	10 to 12 annas.	Want of timely rainfall in October and November is the cause of the very poor outturn this year.
	District Total ...	3,753	1,435	124		... .	...	
	GRAND TOTAL FOR THE WHOLE OF BENGAL ...	152,796	90,473 35	25,293·88	......	.....	... .	

STATEMENT IV.—*Showing estimated outturn of important special crops, such as Jute, Tobacco, Ganja, Sugarcane, Opium, Mulberry.*

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	REMARKS.
				BURDWAN DIVISION.				
Burdwan ...	Sudder ...	1,242	993	Sugarcane	48	10	12	
				Tobacco	0·50	8		
	Culna ...	432	350	Jute	20	12	12	The decrease in outturn is due to want of timely rain.
				Sugarcane	30		16	
				Potatoe	10		16	
				Indigo	10		...	
	Cutwa ...	352	265	Sugarcane	20	14	12	
				Turmeric	1	12	12	
				Jute and sunn	1	14	12	
				Tobacco	1	14	14	
	Raneegunge ...	671	361	Sugarcane	2·84	15	15	
	District Total	2,697	1,969	...	144 34	...	...	
Bankoora	Sudder ...	1,921	670	Sugarcane	1	11	14	
				Jute and sunn	¼	10	10	
				Tobacco	¼	12	10	
				Mulberry	¼	12	12	
	Bishenpore	700	350	Sugarcane	3	12	16	
	District Total ...	2,621	1,020	...	5	.	.	
Beerbhoom ..	Sooree (Sudder)	1,108	664	Sugarcane	28	13	16	
				Mulberry	12	15		
	Rampore Haut	648	486	Sugarcane	18	10	8	
				Mulberry	10	12		
				Sunn	2	8		
	District Total ...	1,756	1,150	...	70	..		
Midnapore	Sudder ...	3,297	2,152	Mulberry	90	11	16	
				Tobacco				
				Jute				
				Sunn				
				Mat grass				
	Contai ...	849	800	Sugarcane	109	12	14	
				Jute				
	Ghattal ...	321	220	Sugarcane	5	10	16	
	Tumlook	620	465	Mulberry	3	12		
				Sugarcane	20	16	12	
				Mulberry				
				Jute				
				Tobacco				
	District Total ...	5,087	3,657	..	236	.	.. ..	
Hooghly	Sudder ...	412	320	Sugarcane	9	14	13	
				Tobacco	2			
	Serampore ..	343	250	Sugarcane	14	10 to 12	14	Sugarcane and jute both suffered from drought at ploughing time and from floods afterwards. Sugarcane suffered more than jute.
				Jute	15			
				Tobacco	2			
				Melons, &c.,	2			
	Jehanabad	438	262	Sugarcane	35	3	20	The loss is due to floods.
				Tobacco	9	16	16	
	Howrah	173	94½	Jute	4	11	15	
				Sugarcane	3			
	Ooloobérya ...	303	218	Jute	7	.	.. ..	
				Tobacco	2	8	18 to 20	Sugarcane was partly damaged by flood.
				Sugarcane	6			
				Mulberry	2			
	District Total	1,699	1,103½	. ..	112	...	. ..	
				PRESIDENCY DIVISION.				
24-Pergunnahs	Sudder including Barripore.	885	502	Jute	5¼	. .		
				Tobacco	2	10	16	
				Sugarcane	4	12		
	Diamond Harbour ...	417	257	Jute	·25	.	.. .	
				Sugarcane	·12	16	16	
				Tobacco	1	16		
	Barraset ...	302	243	Jute	35	..	.. .	
				Tobacco	3	12	13	
				Sugarcane	6	16		
	Basirhaut	360	260	Jute	10		.	
				Tobacco	5	11	9	
				Sugarcane	7	14		
	Barrackpore ...	42	13	Jute	1	14	11	
				Sugarcane	·25			
	Dum-Dum ...	24	15·13	Sugarcane	·08	12	12	
	District Total ..	2,120	1,299 13		79·3	. .	.. ...	
Khoolna .	Sudder	1,572·40	498	Jute	22	13	14	The cultivation of jute and sugarcane is increasing every year, particularly in the Satkhira sub-division.
	Satkhira ...	1,273 88	516	Tobacco	16 5			
	Bagirhat	1,508 63	739	Sugarcane	43			
	Area of boundary khals and rivers of the Sunderbans in this district.	496	......	Miscellaneous	5			
	District Total ...	4849 91*	1,753	....	86 5	.....	. .	

* This includes Sunderbuns 2,772 91 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	REMARKS.
				PRESIDENCY DIVISION—*continued*.				
Nuddea	Sudder ...	701	535	Jute				
				Tobacco	75	8	10	The crops suffered from floods
				Sugarcane				
				Indigo				
	Chuadanga	437	272	Sugarcane		12	16	The decrease in outturn is due to the want of timely rainfall.
				Tobacco	25	8	8	
				Jute		8	12	
	Kusten ...	558	118	Jute				
				Sugarcane				
				Turmeric	104	12	8	The floods did damage to jute and sugarcane to a certain extent.
				Tobacco				
	Meherpore	627	500	Jute	3	5	10	
				Tobacco	1	5¼	10	The decrease is due to want of rain
				Sugarcane	8	6	[illegible]	
				Mulberry	3	6	12	
				Turmeric	5	4	12	
				Indigo	35	7 to 8	9	
	Ranaghat ...	437	225	Jute	24	6	12	
				Sugarcane	12	12	12	
				Tobacco	12	14	12	
	District Total	2,750	1,950		307			
Jessore	Sudder	849	478	Jute	9	16		
				Tobacco	11	14	14	
				Sugarcane	5	14		
	Bongong	649	389	Jute	13	12	13	
				Tobacco	25	16	16	
				Sugarcane	12	8 (*a*)	16	(*a*) The floods greatly injured the sugarcane plants of the current year
	Narail	487	365·2	Jute	23	17	16	
	Magoorah	425	268	Jute	20	9	12	
				Sugarcane	20	16	16	
				Tobacco	3	16	16	
	Jhenidah ...	475	317	Jute	6	12	12	Jute crop was affected by drought at the sowing season and by flood at the time of harvest.
				Sugarcane	·25		12	
	District Total	2,925	1,817·2		147·25			
Moorshedabad	Lalbag ...	372	223	Jute				Want of rain in the beginning of the year retarded the growth of special crops to some extent, hence the deficiency of outturn
				Tobacco				
				Ganja	44·64	12	14	
				Sugarcane				
				Opium				
				Mulberry				
	Jungipore	508	444	Tobacco		16	14	
				Jute		17	12	Sugarcane, indigo and mulberry are in splendid condition now, and a bumper crop is expected
				Sugarcane		20	16	
				Indigo		20	12	
				Mulberry		20	14	
	Kandi	512	409	Sugarcane		12	12	
				Mulberry		12	4	
	Sudder	767	613	Mulberry				
				Jute	2·634	10	9½	
				Sugarcane				
				Tobacco				
	District Total	2,159	1,689		47·274			
				RAJSHAHYE DIVISION.				
Dinagepore	Sudder	3,251	1,950	Jute		16		
				Tobacco	167	9	10	
				Sugarcane		10		
				Ganja		8*	16	* Failure is due to the hailstorm and the high wind in January 1889.
	Thakurgaon	867	650	Jute		15		
				Tobacco	293	14	14	
				Sugarcane		12		
	District Total	4,118	2,600		460			
Rajshahye	Sudder	944	585	Jute(*a*)				
				Tobacco(*a*)	68			
				Sugarcane		12	10	
				Mulberry		12	12	Jute suffered much from want of rain at the time of its growth, as well as from flood at the time of harvesting. Much damage has been done to the ganja crop by the hailstorm which visited the Nowgong sub-division in January last
	Nattore	817	620	Jute				
				Tobacco	50	13	11½	
				Sugarcane				
	Nowgong	603	183	Jute		...	...	
				Tobacco	154	6	8	
				Ganja		10	12	
				Sugarcane		10		
	District Total	2,364	1,688		272			
Rungpore	Rungpore	1,151	900	Jute	125		15	
				Tobacco	80	16	16	
				Sugarcane	80		16	
				Indigo	15		10	
				Wheat	10	16	18	
	Nelphamari	633	480	Jute	110			
				Tobacco	59	12	10	
				Sugarcane	7	12	10	
	Kurigram	937	700	Jute	275		12	
				Tobacco	175	14	10	
				Sugarcane	100	12	10	
	Gaibanda	760	570	Jute	100		15	
				Sugarcane	40	14	14	
	District Total	3,486	2,650	...	1,225			

1	2	3	4	5	6	7	8	9
DISTRICT	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	REMARKS
				RAJSHAHYE DIVISION—*concluded.*				
Bogra ...	Bogra	1,452	913	Jute	140		13	Tobacco and mulberry appear to have been much damaged by the recent hail.
				Tobacco		8	14	
				Mulberry		8	4	
				Ganja		12	10	
				Sugarcane		15	15	
				Potatoe		14	12	
	District Total	1,452	913		140		.	
Pubna ...	Sudder ...	890	667	Tobacco ...	273	12	14	
				Sugarcane		12	12	
	Serajgunge	957	718	Tobacco	14	8	Not reported on last year.	
	District Total	1,847	1,385		287			
Darjeeling ...	The Terai	203	74	Jute ...	10	8	4	On account of sufficient rainfall at sowing time, the outturn is better than that of previous year
				Tobacco	2			
				Sugarcane	4			
	Kalimpong	486	54	...				
	Darjeeling	306						
	Kurseong	171	12	Jute	4	8	4	
				Tobacco	3			
				Sugarcane	4			
	District Total	1,166	140*		27			
Julpigoree ...	Baikantapore pergunnah.	147	298	Jute ..	39	..	12	
				Tobacco ...		8	12	
				Sugarcane ..		14	10	
	Boda	402·72	250	Jute	80		8	
				Tobacco ..		9	8	
				Sugarcane ...		10	8	
				Ganja		8	7	
	Patgram	86·88	65	Jute	13	.	8	
				Tobacco		14	11	
				Sugarcane ..		6	6	
	Mynagoree	524	187·5	Jute ..	9		6	
				Tobacco		8	8	
	Fallacotta	742	500	Jute	36		14	
				Tobacco		16	14	
	Alipore	517	180	Jute	15		10	
				Tobacco		16	12	
	Bholka	132	43	Jute	3	.	16	
				Tobacco		8	16	
	District Total ..	2,851·60	1,353·5	..	200	......	.	
				DACCA DIVISION.				
Dacca ...	Sudder	1,266	633	Jute ..	175		14	
				Tobacco ..		10	12	
				Sugarcane		13	12	
	Naraingunge	641	321	Sugarcane	80	14	12	
				Tobacco ...		8	8	
				Jute		10	8	
	Munshigunge	401	200	Sugarcane ...	30	12	12	
				Jute		12	13	
	Manickgunge	489	366	Jute ..	50		18	The crop was partially injured by rain
	District Total	2,797	1,520		335		..	
Furreedpore ..	Sudder	860	602	Jute	61		14	
				Tocacco		12	12	
				Sugarcane ..		12	12	
	Madaripore	976	672	Jute	131·5		15	
				Sugarcane		10	12	
				Sunn		16	Not known	
	Goalundo	428	321	Jute	80·25	8	14	Decrease is due to want of rainfall during June and July 1888
				Sugarcane ...		5	14	
	District Total	2,264	1,57[illegible]		272·75			
Backergunge ..	Barisal ..	1,111	615	Sugarcane	66	16	11	
				Jute and tobacco		10		
	Perozepur	692	605	Sugarcane	12·5	16	14	
	Patuakhali	1,625†	2[illegible]1	Sugarcane	1	16	14	
	Bhola	615	300	Sugarcane	1·75	16	14	
				Jute		11		
	District Total ..	4,041	1,751		81·25		.	
Mymensingh	Sudder	1,849	1,061	Jute	275		8	Tobacco and sugarcane are cultivated for home consumption
	Kishoregunge	714	350	Do	90		10	
	Netrokona	1,389	694	Do. ..	25		10	Deficiency of rain in sowing time and excessive rain in weeding time affected the last jute crop
	Jamalpore	1,214	930	Do ...	600		6	
	Attia	1,061	790	Do ..	309		15	
	District Total	6,287	3,815	.. ...	1,299			

* This excludes the area under tea cultivation

† This includes the Sunderban area which was not included in previous statements

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn, in annas, of current year's crop.	Outturn in annas of preceding year's crop.	REMARKS.
				CHITTAGONG DIVISION.				
Tipperah	Comillah or Sudder	1,142	912	Jute	226	..	13	
				Sugarcane	71	13	15	
				Tobacco	10	12	12	
	Brahmanberiah	769	553 68	Jute	} 94	{	16	
				Sugarcane		12	12	
				Tobacco		10	10	
	Chandpore	580	410	Jute	150		16	
				Sugarcane	25	16	16	
				Betelnut	75	13	13	
	District Total	2,491	1,875 68		651			
Noakhally	Sudder	1,298	648	Jute	5	..	12	
	Fenny	343	75	Sugarcane	20	8	8	
				Jute	9	..	12	
	District Total	1,641	723	..	34			
Chittagong	Sudder	1,630	611 25	Tobacco	} 25·20	{ 6	12	The outturn has been much below an average crop for want of rain. Deficiency of rainfall affected also the crops of the last year.
				Sugarcane		6	12	
	Cox's Bazar	937	633 60	Tobacco	} 73·76	10	16	Continued drought from October to date is the cause of the short outturn.
				Sugarcane				
	District Total	2,567	1,244 93		98·66			
Chittagong Hill Tracts.	Sudder	3,583 5 of which 1,052 5 are reserved forests	37 45 jumland 7 ploughed.	Tobacco	} ·66	8	12	
				Sugarcane				
	Sungoo	1,835 5 of which 362 3 are reserved forests	18 76 jumland 3 8 ploughed.	Tobacco	75	8	12	
	District Total	5,419	67 01		1 41		...	
				PATNA DIVISION.				
Patna	Sudder	617	456	Poppy	} 22	{ 10	15	The outturn is poor owing to hail and rainfall during February.
				Sugarcane		15	13	
	Barh	526	405	Jute	} 5·03	{ ..	12	Tobacco and poppy were damaged by rain and hailstorm. Sugarcane suffered much from want of rain during planting time and in May and June.
				Tobacco		8	20	
				Sugarcane		4	14	
				Poppy		10	12	
	Dinapore	143	116	Jute	·63	2	2¼	The current years' outturn will be less than that of last year owing to the floods.
				Sugarcane	·58	12	15	
				Poppy	66	15	15	
	Behar	793	575	Sugarcane	} 21·93	9	13½	
				Tobacco				
				Poppy				
				Jute				
	District Total	2,079	1,552		60 82			
Gya	Aurangabad	1,246	747	Opium	15	8	13	Poppy was damaged by hail and rains.
				Sugarcane	7½	12	10	
	Jehanabad	607	504	Sugarcane	16	16	1[illegible]	
				Poppy	30	12	16	
	Nawada	1,020	612	Poppy		10	16	
				Sugarcane		16	12	
	Sudder	1 839	1 131	Poppy	147½	10	11½	
				Sugarcane	115	1[illegible]	9	
	District Total	4,712	[illegible]		325			
Shahabad	Arrah	915	778	Sugarcane	19	10	6	
				Poppy	12	10	15	
	Buxar	656	563	Sugarcane	7 8	12	6	The [illegible] outturn of [illegible] year is due to timely rainfall.
				Poppy	8	16	18	
	Sasseram	1,493	687	Tobacco	} 10 75	{ 12	14	
				Sugarcane		8	4	
				Poppy		8	12	
	Bhabuah	1,301	976	Sugarcane	33	12	4	The crops were affected by cloudy weather and rains in January and February.
				Poppy	35	10	16	
	District Total	4,365	3 004		123 55			
Durbhunga	Sudder	1,222	929	Tobacco	} 23	{ 12	16	The deficiency in outturn is attributed to the hail that fell towards the end of January.
				Poppy		14	16	
				Sugarcane		16	16	
	Madhubani	1,319	1,100	Tobacco	} 102 5	{ 12	16	
				Sugarcane		12	16	
				Poppy		10		Tobacco was very good in the beginning but the untimely rain and hail in February did considerable injury.
	Tajpur	764	600	Tobacco	} 37	{ 12	16	
				Poppy		12	10	
	District Total	3,336	2,629		162 5	....	..	

1	2	3	4	5	6	7	8	9
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	REMARKS.
			PATNA DIVISION—*concluded.*					
Mozufferpore	Mozufferpore	1,218	960	Jute				
				Tobacco	90	12	10	
				Sugarcane				
				Poppy				
	Hajeepore	771	600	Tobacco				
				Sugarcane	50	12	10	
				Poppy				
	Sitamarhee	1,014	760	Jute				
				Tobacco	75	10	12	
				Sugarcane				
				Poppy				
	District Total	3,003	2,320		215			
Sarun	Sudder	998	850	Tobacco				
				Sugarcane	50	18	15	
				Poppy				
				Miscellaneous				
	Sewan	[illegible]53	750	Tobacco				
				Sugarcane	31	18	18	
				Poppy				
	Gopalgunge	771	581	Potato				
				Tobacco				
				Sugarcane	83	11	12	
				Poppy				
				Turmeric				
				Chilis				
	District Total	2,622	2,181		167			
Chumparun	Sudder	1,518	1,022	Poppy	60	16	12	The outturn of poppy is likely to be better than that of the previous year owing to rainfall in the latter end of January and during the month of February.
				Sugarcane	8	10	10	
	Bettiah	2,013	1,513	Poppy	50	16	12	
				Sugarcane	23	15	14	
	District Total	3,531	2,535		127			
			BHAGULPORE DIVISION.					
Monghyr	Sudder	1,559	1,091	Sugarcane	1	16	12	
				Poppy	3	14	14	
	Beguserai	769	577	Tobacco	7	10 to 12	14	
				Sugarcane	3	12 to 14	12	
	Jamui	1,593	1,0[illegible]2	Sugarcane	7	16	16	
				Poppy	25	16	11	
	District Total	[illegible],921	[illegible],[illegible]30		[illegible]			
Bhagulpore	Sudder	936	655	Jute		16		Tobacco has been damaged by hailstorm in the end of January and in February 1889.
				Tobacco		8	12	
				Sugarcane	21	16		
				Poppy		12	16	
				Indigo			16	
	Banka	1,185	858	Sugarcane	96.5	16	16	
				Indigo	7		8	
	Madhipurah	872	512	Tobacco	1.75	8	12	Jute, tobacco and sugarcane are cultivated to such a small extent as to admit of no forecast.
				Indigo	33.25	..	12	
	Supoul	1,275	956	Jute	9		12	
				Tobacco	9	12	10	
				Sugarcane	13		10	
				Indigo	1[illegible]		14	
	District Total	4,[illegible]68	3,041		137.[illegible]	...		
Purneah	Sudder	2,572	1,929	Jute	100	16		Tobacco suffered at the first stage for want of rain.
				Tobacco	150	12	12	
				Sugarcane	22	12		
	Arrareah	1,044	700	Tobacco	150	14	16	Tobacco and sugarcane suffered at the first stage for want of sufficient moisture in the ground. Jute had a timely rain and yielded a very good outturn.
				Jute	1[illegible]	16	12	
				Sugarcane	25	12	16	
	Kishengunge	1,340	1,005	Jute	100	14	16	Jute and tobacco yielded a shorter harvest for want of seasonable rain; sugarcane yielded a good harvest as there was no excessive rain.
				Tobacco	60	13	16	
				Sugarcane	20	16	15	
	District Total	[illegible]956	3,634		727			
Maldah	Whole district	1,902	1,130	Jute	65	12	12	The cultivation has been slightly retarded for want of timely rain, and the yield is also affected though only in some part of the district by the recent hailstorm.
				Mulberry	92	14	12	
				Indigo	95	16	16	
				Tobacco	30	12	12	
				Sugarcane	10	12	12	
	District Total	1,902	1,130		292			
Sonthal Pergunnahs	Deoghur	950	260	Sugarcane	5	12	20	
	Dumka Sudder	1,176	180	Sugarcane	10	10	16	
	Godda	966	180	Sugarcane	1.45	16	16	Good rain fell in January.
				Tobacco		10	8	
	Rajmehal	740	370	Jute				
				Tobacco	.92	8	8	
				Sugarcane				
	Jamtara	698	240	Sugarcane	10.33	12	18	
	Pakour	683					...	
	District Total	5,461	2,160	... ...	30.70	......		

1	2	3	4	5	6	7	8	9
District	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks.
ORISSA DIVISION.								
Cuttack ...	Sudder	3,381	1,771½	Tobacco	7	9	10	The decrease is attributable to want of seasonable rain.
				Jute	5	8	9	
				Sugarcane		8	12	
	Banki	116	60	Sugarcane .. ... Tobacco	2	6 12	12	
	Kendrapara	1,005	448	Jute	3	10	11	
				Tobacco	7			
				Sugarcane	1·5			
	Jajpore	1,104	500	Tobacco ..	2	12	12	
				Sugarcane	3	12	12	
	District Total ..	3,633	2,779 5	....	32·5	.		
Balasore ..	Balasore	1,158	670	Jute	4	16	16	
				Sugarcane	4	..	... .	
	Bhuddruck	908	729	Jute .. .. Tobacco ... ... Sugarcane ..	5·5	12	16	Owing to want of rain during the time of sowing and from the effects of flood afterwards, there was a loss of four annas on the average in this sub-division
	District Total ...	2,066	1,399	....	13 5	. .	. ...	
Pooree .	Sudder	1,530	719·90	Jute	5·50	10	12	
				Tobacco ...	7·25	7		
				Sugarcane ...	9·50	9		
				Castor	12 25	6		
				Cotton	2·50	8		
	Khobrda	990	415·80	Sugarcane	1·5	12	16	
	District Total ...	2,520	1,135·70		38·5		... .	
CHOTA NAGPORE DIVISION.								
Hazaribagh ...	Giridih	2,440	1,280	Sugarcane . .. Poppy ... Tobacco ... ... Jute	67	10½	12½	The decrease in outturn is due to want of timely rain
	Head-quarters ...	4,575	2,593	Sugarcane ... Jute .. . Tobacco ...	37	9	14	
	District Total .	7,021	3,873	....	104	.	.	
Loharduggа	Head-quarters ..	7,784	5,957	Jute	.... .	4	2	
				Tobacco ..	. .	8	3	
				Sugarcane	.	4	5	
	Palamow	1,260	1,500	Sugarcane . Poppy . .	500	6	9	
	District Total ..	12,044	7,457	. ...	500		.	
Manbhoom	Govindpore ..	803	289	Jute .. .. Tobacco Sugarcane ..	3	12 12 8	2 4 12	
	Sudder ..	3,344	1,203	Sugarcane Cotton .. Babui .. ... Indigo Tobacco ...	60	10 12 12 12 10	20 10 15 12 12	
	District Total ...	4,147	1,492	....	63		...	
Singbhoom ...	Kolhan pergunnah .	1,946	779	Tobacco	16	12	12	
	Porahat	660	198	Sugarcane Tobacco ..	8	10	10	
	Dhalbhoom ...	1,147	458	Sugarcane .. Tobacco	6	4	14	
	District Total ..	3,753	1,435	.. ..	30			
	GRAND TOTAL FOR THE WHOLE OF BENGAL.	152,796·51	90,473·35		9,795·6	......	......	

No. 598*I.A.*

Government of Bengal,

PUBLIC WORKS DEPARTMENT.

IRRIGATION.

Accounts.

Dated Calcutta, the 22nd April 1889.

RESOLUTION.

OFFICERS AND VESSELS EXEMPTED FROM PAYMENT OF CANAL TOLLS.

READ—

Government of Bengal, Public Works Department, Local Communications, Notification No. 249, dated 3rd August 1871.

Government of Bengal, Public Works Department, Irrigation, letter No. 144*I.*, dated 4th February 1874, to the Superintending Engineer, South-Western Circle.

Government of Bengal, Public Works Department, Irrigation, Notification No. 108, dated 3rd August 1880.

Government of Bengal, Public Works Department, letter No. 21T.—*I.*, dated 2nd May 1884, to the Superintending Engineer, Orissa Circle.

Government of Bengal, Public Works Department, Irrigation, letter No. 1837*I.*, dated 6th December 1884, to the Superintending Engineer, South-Western Circle.

Government of Bengal, Public Works Department, Irrigation, letter No. 1130*I.*, dated 18th August 1886, to the Superintending Engineer, South-Western Circle.

Letter No. 445, dated 28th June 1888, from the Commissioner of Orissa.

Letter No. 5053, dated 6th October 1888, from the Superintending Engineer, South-Western Circle.

Letter No. 4857, dated 30th November 1888, from the Superintending Engineer, Sone Circle.

Letter No. 82, dated 5th January 1889, from the Superintending Engineer, South-Western Circle.

Letter No. 1275, dated 28th March 1889, from the Superintending Engineer, Sone Circle.

An examination of the rules which have been issued in connection with the various canal systems shows that they differ greatly as regards the officers who are exempted from the payment of tolls. In future, in supersession of all previous orders on the subject, only the officers and vessels enumerated in the following schedule will be exempted from payment of tolls. These orders will take effect from the 1st May 1889. Any exceptional cases, where exemption appears for special reasons to be desirable or necessary, will be referred by Superintending Engineers for orders of Government:—

SCHEDULE.

Officers exempted from payment of canal tolls.

1. Canal officers, *i.e.*, those directly in charge of Irrigation works, and whose duty will necessitate travelling through the canals for inspection thereof, when on duty.
2. Deputy Revenue Superintendents of Irrigation when on duty.
3. Police officers when on duty.

N. B.—No officer can claim exemption on the mere ground that he is connected, as regards his duties, with any of the abovementioned officers: for instance, a Magistrate and Collector is in the former capacity the superior of the police officer, and in the latter the superior of the Deputy Revenue Superintendent, but this cannot in any way be allowed as qualifying him for exemption.

Vessels.

1. Vessels carrying troops.
2. Vessels owned by the Commissioners of the Port of Calcutta, which may enter the Calcutta canals or Tolly's Nullah either from stress of weather or on business connected with the port, and which do not carry passengers, materials, or goods.

ORDERED—That a copy of this Resolution be forwarded to the Secretary to the Government of Bengal, Judicial Department; Secretary to the Board of Revenue, Lower Provinces; Commissioners of the Orissa, Burdwan, Patna, and Presidency Divisions; Collectors of Cuttack, Midnapore, Patna, Shahabad and Gya; Inspector-General of Police; Superintending Engineers, Orissa, South-Western and Sone Circles; and Examiner, Public Works Accounts, Bengal.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secretary to the Govt. of Bengal,
P. W. Dept.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 20th April 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN.			
1	Burdwan April 20, '89	0·35	Weather—hot and dry. No crops. Prospects poor while rain holds off. Prices again rising, and now 15 seers for common rice. Sporadic cattle-pox in east of district.
2	Baukoora " 20, '89	Nil	Weather—very hot. Rain is wanted for ploughing. Standing crops are coming on well. Transplantation of sugarcane commenced. Prices have slightly risen.
3	Birbhum " 20, '89	Nil	Great heat, no rain. Practically no crops on the ground. Ploughing has to be deferred for want of rain.
4	Midnapur " 20, '89	Nil	Weather—very hot with occasional light showers. *Boro* is being reaped in places. Slight damage done to this crop by high wind. The recent rain has not been sufficient to allow indigo to be re-sown.
5	Hugli " 20, '89	Nil	Weather—seasonable. Sowings have not commenced yet, but ploughing for early rice general. Sugarcane is being planted.
	Howrah ...	......	Report not received.
	Central Districts.		
PRESIDENCY DIVN.			
6	24-Perghs. April 20, '89	Nil	Weather—abnormally hot, with occasional clouds, and windy. Lands are being tilled for the *aus* crops, but rain is much wanted. Sugarcane is progressing. Prices of food-grains vary from 13 seers 5½ chittacks to 16 seers per rupee.
7	Nuddea " 20, '89	Nil	Weather—hot, but cloudy in the Kooshtea and Meherpur sub-divisions. No crops in the field except indigo and sugarcane, which are doing well. Lands are under cultivation for early rice. Sowing of early rice has commenced in parts of the Meherpur sub-division. More rain urgently needed.
	Kooshtea ...	0·16	
	Meherpur ...	4·50	
	Chooadanga ...	0·45	
8	Khoolna " 20, '89	0·47	Weather—hot with high wind. *Boro* paddy and *til* thriving in Bagirhat, but suffering in other parts of the district for want of sufficient rain. Lands are being ploughed.
9	Jessore " 20, '89	1·85	Weather—very hot and dry. The partial rain has done good, but more wanted. Price of rice rising.
	Jhenidah ...	1·85	
	Magura ..	0·26	
	Narail ...	1·77	
10	Moorshedabad " 20, '89	Nil	Weather—hot and dry. Ploughing going on, but rain needed.
RAJSHAHYE DIVN.			
11	Dinagepur " 20, '89	Nil	Winds easterly. About 2 annas of *bhadoi* and 4 annas of jute sown. Some rain is wanted.
12	Rajshahye " 20, '89	Nil	Weather—very hot. Jute and *boro* paddy being sown. Cultivation going on for paddy. Rice still sells at 15½ seers per rupee.
13	Rungpur " 20, '89	2·82	Weather—unsettled; frequent gales with heavy rain. There has been a pretty general fall of rain, which has greatly benefited the crops. Prospects are now fairly good, and the serious apprehensions produced by the drought are at an end. The rice and jute sowings will now be completed. Some damage has been done in the south by hail. Cattle disease is very rife.
14	Bogra " 20, '89	Nil	Weather—hot days, nights moderately cool. Winds very changeable. Rain often threatens, but never falls. *Aus* rice, jute, and *cheena* are germinating slowly, but rain is urgently needed. Price of rice steady.
15	Pubna " 20, '89	2·21	Weather—cloudy, occasional showers. Rain where fallen has done much good, but is not general. More rain wanted. *Aus* and jute are being sown; the latter to the extent of 2 annas.
16	Darjeeling " 20, '89	1·96	Weather—damp and misty with occasional heavy showers. Hail-storm on 11th at Rangorum did some damage to crops. Spring sowings being vigorously pushed on. So far prospects good.
17	Julpigoree " 20, '89	Nil	Weather—hot during first part of week; latterly cloudy. A little rain on the night of the 19th. More rain wanted. Cultivation of lands for jute and *aus* paddy going on. Prices stationary.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca April 20, '89	1·42	Weather—hot and cloudy with strong wind. Cultivation of jute and *amun* and *aus* paddy going on. Recent rain has done good. *Boro* paddy is being cut. Estimated outturn of mustard and safflower is 10 and 8 annas respectively.
19	Furreedpur " 20, '89	1·78	Weather—hot. Rain fell on three days. More rain wanted. Outturn of *joli* paddy about 8 annas.
20	Backergunge " 20, '89	0·17	Weather—very hot. Ploughing progressing for *aus dhan*, but more rain wanted.
21	Mymensingh " 20, '89	3·34	Weather—hot during the day; cool at night. Harvesting of *boro* rice is still getting on. Sowing of *aus* and jute has commenced.
	Jamalpur ...	0·53	
	Netrokona ...	5·87	
CHITTAGONG DIVN.			
22	Chittagong " 20, '89	0·16	Weather—hot. Rain much wanted. Lands are being prepared for *aus* paddy. State of other miscellaneous crops is not good for want of rain.
23	Noakholly " 20, '89	0·24	Weather—windy and cloudy. Sowing of *aus* crops continues. *Rubbi* crops are being harvested. Betel-nuts and cocoanuts earing. Rain wanted.
24	Tipperah " 20, '89	1·38	Weather—stormy with south wind and occasional rain. The rain has much improved the standing crops and the crops lately sown. Paddy and jute are being sown. It is estimated that 8 annas of *aus dhan* and 4 annas of *amun dhan* have been sown.
25	Chittagong Hill Tracts. ...	......	Report not received.
	Hill Tipperah " 20, '89	2·32	Weather—hot with southerly wind. Copious showers of rain on the 15th and 17th. Lands are being cultivated for *satya* paddy, jute and sugarcane. The rain has done good to the standing crops. Prices stationary.

Division	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.					
PATNA DIVN.	26	Patna	April 20, '89	Nil	Weather—hot with west wind. Threshing of *rubbi* crops still continues to a certain extent. Prospects generally favourable, but not good in Behar. Prices of food-grains rising.
	27	Gya	„ 20, '89	Nil	Weather—hot and fair. Threshing of *rubbi* crops going on. Sugarcane is being irrigated. *Cheena* is coming on well. Prices of food-grains rising. Opium weighments in progress throughout the district.
	28	Shahabad	„ 20, '89	Nil	Weather—hot with west wind. *Cheena* and sugarcane doing well. Nothing else on the ground. Prices rising in Sasseram, but stationary elsewhere.
	29	Durbhunga	„ 20, '89	Nil	High easterly winds prevailing. Rain very much wanted for *cheena*, *mung*, and indigo. *Rubbi* harvest finished; threshing going on. Lands being prepared for *bhadoi* cultivation. Prices almost stationary, but tending upwards.
	30	Mozufferpur	„ 20, '89	Nil	Weather—continued hot west winds; no sign of rain. Rain is urgently needed for indigo, *cheena*, and *mung*. *Cheena* has already suffered very badly in the Sitamurhi sub-division, and the outturn will be very small. The *rubbi* harvest is over, the general outturn being good.
	31	Sarun	„ 20, '89	Nil	Weather—seasonable. Harvesting of *rubbi* almost completed; outturn estimated at 12 annas. *Cheena* doing well.
	32	Chumparun	„ 20, '89	Nil	Weather—clear and hot; east wind prevailing. *Rubbi* harvest completed. Opium weighments progressing; yield one-third below estimate. *Cheena* needs rain, especially on uplands; prospects poor. Indigo doing fairly. Prices tend towards a rise. Prospects of mango crop favourable.
BHAGULPORE DIVN.	33	Monghyr	„ 20, '89	Nil	Weather—seasonable. Outturn of *rubbi* 12 annas. Indigo promising.
	34	Bhagulpur	„ 20, '89	Nil	Weather—sultry with occasional strong east wind. Sugarcane doing well. Indigo damaged by grubs. *Mohwa* has given 16 annas outturn. Rain is now desirable for preparation of lands.
	35	Purneah	„ 20, '89	Nil	Weather—very hot; occasional east wind. Rain badly wanted. Very few crops on the ground. Agricultural operations suffering from want of rain.
	36	Maldah	„ 20, '89	Nil	Weather—hot and steamy. *Boro* paddy is still doing well. *Bhadoi* sowings in progress. Damage to these crops is anticipated for want of rain.
	37	Sonthal Perghs.	„ 20, '89	Nil	Weather—very hot. The signs of rain in the early part of the week have disappeared. No food-crops to report on. Indigo doing well. Rain much wanted. Prices high, but stationary.
ORISSA.					
ORISSA DIVN.	38	Cuttack	„ 22, '89	Nil	Ploughing of *beali* and *sarad* lands progressing slowly for want of rain. Price of rice stationary.
	39	Pooree		......	Report not received.
	40	Balasore	„ 19, '89	Nil	Weather—seasonable. Lands being tilled. Sugarcane and cotton doing well. *Dalua* rice still being harvested. Prices rising. More rain wanted in north of district.
CHOTA NAGPORE.					
South-West Frontier Agency.					
CHOTA NAGPORE DIVN.	41	Hazaribagh	April 20, '89	Nil	Weather—seasonable. Very hot with strong west winds. Sugarcane doing well. Rain would improve the prospects of this crop. *Mohwa* has yielded from 12 to 14 annas. Mango has failed. Prices generally stationary.
	42	Lohardugga	„ 20, '89	Nil	Weather—hot. Rain with hail and wind in the interior. Reaping of gram and wheat completed. Prospect of *mohwa* outturn reported to be from 8 to 10 annas. *Karanj* not expected to be a good crop. *Rubbi* crops being threshed in Palamow and sugarcane planted. Prices stationary.
	43	Singbhoom	„ 20, '89	0·09	Weather—seasonable. Sugarcane doing well. *Mohwa* being gathered; 10 annas outturn expected. Prices stationary.
	44	Manbhoom	„ 20, '89	Nil	Weather—intensely hot. No crops on the ground. Rice selling at from 17 to 22 seers the rupee. Price of *mohwa* has fallen to 8 annas a maund.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 23rd April 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*retail*) *of Food-grains, Firewood and Salt in the*

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.			Jowar or Cholum. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan .	14 8	15 8	14 8	No sale	26 0	40 0	13 14	14 4	18 15	16 2	16 14	24 0	...	...	...
2	Bankoora ...	15 0	15 0	16 0	20 0	20 0	20 0	16 0	17 4	19 8	18 0	19 8	21 6		...	...
3	Beerbhoom* ..	...	..	...	..	..	..	..	..	...	...	.	...	...	..	...
4	Midnapore .	10 0	10 0	17 0	40 0	40 0	40 0	16 0	14 0	18 8	18 0	16 0	27 0	...	.	...
5	Hooghly* ...	...	.	...	..	...	..		...	...	..	..	...	..	..	...
	Howrah ..	..	...		..	...	.	11 0	12 0	14 8	14 8	15 0	20 0	..	...	...
	Central Districts.															
	Calcutta ...	13 2	13 3	14 0	18 12	19 9	24 3	9 9	9 14	11 15	14 4	14 11	18 4	17 2	17 8	16 8
6	24-Pergunnahs	13 8	14 0	16 0	20 0	20 0	22 0	8 0	8 0	8 0	13 8	15 8	19 0		...	...
7	Nuddea .	16 0	16 0	16 6	22 13	22 13	26 10¼	13 5¼	13 5¼	14 8	15 8	15 8	18 11	...	...	...
8	Khoolna .	..	.	...		.		13 4	13 0	21 0	14 0	15 0	23 0	..	...	...
9	Jessore .	11 0	13 0	16 0	..	...	.	11 0	13 0	18 0	15 0	16 0	25 8	...	.	...
10	Moorshedabad	16 0	14 0	16 0	..		...	12 0	13 4	17 8	14 8	16 0	22 0	...	.	...
11	Dinagepore	13 0	12 12	16 0	12 0	10 0	...	15 8	15 8	21 4	19 4	19 3	25 0	...	...	...
12	Rajshahye	16 8	16 8	20 10	30 0	37 8	45 0	12 12	13 8	18 0	14 4	15 0	22 8	...	...	...
13	Rungpore .	14 8	14 3	13 4			...	10 8	10 8	13 4	16 0	16 0	21 0	...	...	...
14	Bogra .	17 10	13 8	18 9	...	..	..	13 14	15 0	16 8	18 12	18 12	26 4	...	...	...
15	Pubna .	18 0	19 8	20 4	...	.	.	7 12	7 8	8 0	17 4	17 4	21 12	.	...	...
16	Darjeeling ..	6 0	6 0	10 0	10 0	10 0	11 0	6 0	6 0	5 0	13 0	13 0	14 0	...	...	...
17	Julpigoree ..	9 0	10 0	12 0	16 0	16 0	20 0	8 0	8 0	13 0	16 0	17 0	20 0	...	...	...
	Eastern Districts.															
18	Dacca ..	15 8	15 8	14 8	26 0	26 0	40 0	14 4	14 4	19 8	16 0	16 0	22 0	...	...	...
19	Furreedpore .	20 0	20 0	16 0	25 0	20 0	40 0	10 0	10 0	15 0	16 0	15 0	20 0	..	...	...
20	Backergunge ...	.	..	.	..	...	..	10 8	13 0	15 0	12 0	15 1	20 8	...	...	...
21	Mymensingh ..	10 0	10 8	13 12	..	...	..	13 0	13 0	12 0	17 0	17 8	18 8	...	...	...

* Return not received.

† Fall in price is due to importation of new gram.

A In sub-divisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 9 seers 15 chittacks, and Raneegunge 9⅝ seers.
B In sub-divisions retail prices of salt per rupee are:—Ghatal 10¾ seers, Tumlook 8 seers, and Contai 9 seers.
B1 In sub-divisions retail prices of salt per rupee are:—Baraset and Bussirhat 9 seers, Diamond Harbour (at Kulpihat) 8 seers, Barrackpore 9¼ seers, and Dum-Dum 10 seers.
C In sub-divisions retail prices of salt per rupee are:—Meherpore 10½ seers, Chooadanga 10 seers, and Ranaghat 10 seers.
D Retail price of salt at Bagirhat 8 seers per rupee.
E In sub-divisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 10 seers, Narail 9⅜ seers, and Bongong 10 seers.
F In sub-divisions retail prices of salt per rupee are:—Lalbagh 9½ seers, Jungipore 10 seers, and Kandi 9 seers 14 chittacks.

rs of the Districts of ***Bengal*** *on the 15th* ***April*** *1889.*

KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria italica.*) Present return.	Next preceding return.	Corresponding return of last year.	GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer arietinum.*) Present return.	Next preceding return.	Corresponding return of last year.	…s.) of last year.	FIREWOOD. Present return.	Next preceding return.	Corresponding return of last year.	SALT. Present return.	Next preceding return.	Corresponding return of last year.	WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT. Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Ch.	S. Ch.	S. Ch.	S. Ch.	Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
																BENGAL.
																Western Districts.
.	.	.	20 0	23 0	25 8	0	167 0	167 0	120 0	A 10 2	10 2	10 7½	3 11 3	3 11 0	3 11 0	Burdwan.
.	...	..	16 0	14 8	19 0	8	280 0	280 0	320 0	10 0	10 0	10 8	3 14 0	3 14 0	3 11 0	Bankoora.
..	...	...				..	.	...	.	...	..	...	...	...	...	Beerbhoom.
.	..		14 0 / 14 8	14 0 / 14 8	18 0	0	160 0	160 0	120 0	B 10 4	10 4	9 0	3 14 0	3 14 0	4 0 0	Midnapore.
...	.		..	.		..	...		...		..	..	...	...	..	Hooghly.
.	.	..	19 8	19 0	21 8	0	100 0	100 0	100 0	10 8	10 8	9 8	3 10 6	3 10 0	3 14 0	Howrah.
																Central Districts.
18 15	20 4	12 13	18 7	17 12	2 0	4	98 0	98 9	95 0	10 5	10 5	10 7	3 9 6	3 9 6	3 9 0	Calcutta.
12 0	12 0	15 0	21 0	21 0	22 8	0	100 0	100 0	120 0	B1 10 4	10 4	10 0	3 10 0	3 10 0	3 8 0	24-Pergunnahs.
...		..	22 14	24 10	26 10½	14	..	...	..	C 9 2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea.
...	...	..	13 0	10 8	16 0	..	160 0	160 0	160 0	D 9 0	9 2	8 0	4 0 0	4 0 0	4 12 0	Khoolna.
...	..	...	20 0	16 0	27 0	0	160 0	160 0	100 0	E 9 2	9 2	8 0	4 0 0	4 0 0	4 4 0	Jessore.
...	...	..	23 0	23 0	27 0	0	200 0	200 0	200 0	F 10 0	10 0	11 12	...	...	3 6 0	Moorshedabad.
...	...	..	12 12	12 12	18 0	8	160 0	160 0	160 0	G 9 8	9 8	9 12	3 15 0	3 15 0	4 0 0	Dinagepore.
...	...	...	24 0	24 0	26 4	8	240 0	240 0	240 0	H 9 9	9 9	9 12	4 0 0	4 0 0	3 13 4	Rajshahye.
...	...	...	10 0	10 0	16 0	0	120 0	120 0	120 0	I 9 6	9 6	8 10	4 4 0	4 4 0	4 10 0	Rungpore.
...	...	..	19 8	16 14	15 0	..	96 0	96 0	90 0	8 13	8 13	7 14	4 4 0	4 4 0	4 5 4	Bogra.
...	...	...	22 13½	13 8	3[illegible] 4	4	200 0	200 0	200 0	J 9 2½	9 2½	9 12	4 0 0	4 0 0	4 1 6	Pubna.
...	..	...	12 0	10 0	11 0	..	120 0	120 0	120 0	K 7 0	7 0	8 0	5 0 0	5 0 0	...	Darjeeling.
..	..	...	22 0	11 8	16 0	0	128 0	128 0	128 0	L 9 0	9 0	8 8	4 4 0	4 2 0	4 4 0	Julpigoree.
																Eastern Districts.
...	...	...	13 0	13 0	16 0	0	120 0	120 0	120 0	M 10 0	10 0	8 8	3 14 0	3 14 0	4 4 0	Dacca.
...	...	...	22 0	16 0	14 0	...	120 0	120 0	120 0	10 0	9 0	9 0	3 14 0	4 0 0	4 5 0	Furreedpore.
...	...	...	16 0	15 1	13 0	...	120 0	120 0	120 0	N 10 0	10 10	9 2	...	...	3 12 0	Backergunge.
...	...	...	13 0	12 4	13	10 8	...	..	..	O 10 0	9 8	9 10	...	4 0 0	4 1 6	Mymensingh.

…on sub-division retail price of salt 8 seers per rupee.
…g sub-division retail price of salt 9 seers 9 chittacks per rupee.
…nda sub-division retail price of salt 8 seers per rupee.
…gunge retail price of salt 10½ seers per rupee.
…guri retail price of salt 9 seers per rupee.
…lacutta in Alipore sub-division retail price of salt 8 seers per rupee.
…o-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8¾ seers, and Naraingunge 10 seers.
…b-divisions retail prices of salt per rupee are :—Patuakhali 8 seers, Perozepore 9 seers, and Bhola 8 seers.
…n sub-divisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Attea 10 seers, Jamalpore 9½ seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Kangni or Kakun. Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadalay, or Sunaga. (*Cicer arietinum.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong	11 0	11 0	11 0	...	...	...	11 8	12 0	13	...	...	...	11 0	11 [illegible]	14 0
23	Noakholly*	...	...	...	...	...	...	...	...		...	...	...	...	...	...
24	Tipperah	12 8	12 8	12 8	...	...	...	15 8	15 8	17	..	...	...	16 0	16 0	14 4
25	Chittagong Hill Tracts	...	...	...	...	...	...	13 5	13 5	14	...	...	...	..	...	...
	Hill Tipperah	6 0	6 0	8 0	...	...	...	8 0	8 0	12	...	...	...	10 0	10 0	12 0
	BEHAR.															
26	Patna	15 0	17 8	20 8	25 0	24 0	28 0	10 0	11 0	11	15 8	15 8	20 0	23 0	25 0	29 0
27	Gya	16 8	16 8	17 0	25 0	23 0	26 0	9 4	9 4	10	12 8	12 8	19 0	21 0	21 0	24 0
28	Shahabad*	......	.....	......	...	...	...	.	...	...	...	...	...	.	...	...
29	Durbhunga	13 11	18 4	20 12	18 4	..	30 12	9 9	10 4	13	...	...	...	22 13	25 0	24 0
30	Mozufforpore	14 0	15 0	18 0	25 0	22 0	28 0	10 0	10 0	12	..	...	...	20 0	24 0	25 0
31	Sarun	17 0	16 0	17 0	21 0	24 0	25 8	8 4	8 8	8	12 0	12 0	16 8	21 4	22 0	22 8
32	Chumparun	13 0	13 0	11 8	22 0	21 0	30 0	9 8	7 0	8	...	...	...	17 8	17 0	20 0
33	Monghyr	18 14	17 9	20 0	24 6	26 4	30 8	12 10	11 10	13 1	...	13 12	21 0	24 6	26 4	31 8
34	Bhagulpore	16 11	16 10	18 15	21 7	20 3	29 0	12 10	12 10	16	...	...	...	21 7	18 4	27 12
35	Purneah	16 0	13 0	26 0	26 0	...	26 0	13 0	13 8	21	...	.	16 0	16 0	14 0	26 0
36	Maldah	17 0	16 0	20 0	...	...	..	10 0	10 0	13	...	...	...	24 0	24 0	28 0
37	Sonthal Perghs.	13 0	11 8	14 0	...	...	.	14 0	14 0	16	...	...	...	18 8	18 0	22 0
	ORISSA.															
38	Cuttack	14 7	13 2	17 1	..	..	...	10 8	10 8	13	...			21 0	21 0	21 0
39	Pooree	11 13	11 13	13 13	...	...	...	11 13	11 13	18	.	...	...	15 12	15 12	17 1
40	Balasore	15 0	14 0	15 0	13 0	13 0	13 0	12 0	12 0	14		.	...	13 0	13 0	16 0
	CHOTA NAGPORE. *South-West Frontier Agency.*															
41	Hazaribagh	14 0	17 0	15 0	17 0	...	22 0	8 0	8 0	8	...	...	...	15 0	16 0	18 0
42	Lohardugga	red 13 0 white 11 0	red 14 0	16 0	16 0	16 0	28 0	13 0	13 0	15 0	...	...	...	13 0	12 4	18 8
43	Singbhoom	14 0	10 0	15 0	16 0	14 0	20 0	14 0	16 0	18	...	...	...	12 0	14 0	14 0
44	Manbhoom	14 0	14 0	11 0	20 0	30 0	32 0	13 0	15 0	14	...	...	...	15 0	15 0	18 0

* Return not received.

P At Cox's Bazar retail price of salt 8 seers per rupee.
Q In sub-divisions retail prices of salt per rupee are.—Madhubani 10 seers and Taj
R At Hajipore and Sitamarhi retail price of salt 10 seers per rupee.
S At Bettiah retail price of salt 10 seers per rupee.

Calcutta,
The 23rd April 1889.

Station Bazars of the Districts of Bengal on the 15th April 1889—(concluded).

Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers — Salt			Districts
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
.	...	..			..	108 0	108 0	11[illegible] 0	(P) 9 0	9 0	9 0	4 0 0	4 0 0	4 2 0	Chittagong
...	...	.	.	..		..	.	...		...		... .		..	Noakholly
.	..	.	9 0	9 0	10 0	...	.	..	8 0	8 0	8 0	4 6 0	4 6 0	4 10 0	Tipperah
.	.	.	.	..	...	320 0	320 0	400 0	8 0	8 0	6 6	... ...	4 8 0	6 4 0	Chittagong Hill Tracts.
...	...	..	8 0	8 0	12 0	..	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah
															BEHAR
19 0	22 8	29 0	23 0	25 0	25 0	130 0	130 0	12[illegible]	10 0	10 0	10 0	3 12 0	3 12 3	3 12 0	Patna.
...	...	..	21 0	21 0	20 4	200 0	200 0	160 0	9 2	9 2	9 8	4 2 0	4 2 0	4 4 0	Gya
...	...			.	...	..		.	..	...		.			Shahabad
20 9	21 6	28 8	21 2	20 9	2[illegible] 4	160 0	160 0	176 0	(Q) 11 6	11 6	11 0	3 14 5	3 14 5	3 8 0	Durbhunga.
18 0	20 0	24 8	25 0	22 0	30 0	160 0	160 0	160 0	(R) 10 0	10 0	10 0	3 12 0	3 12 0	3 13 0	Mozufferpore
20 0	20 8	25 8	22 8	22 8	26 8	160 0	180 0	160 [illegible]	1[illegible] 0	10 0	10 0	3 15 0	3 14 6	3 14 0	Sarun
1[illegible] 0	20 0	28 0	22 0	22 0	16 0	160 0	160 0	160 0	(S) 9 4	9 0	8 0	4 1 0	4 1 0	1 0 0	Chumparun
19 14	19 11	33 9	19 14	21 0	24 0	146 0	147 0	146 0	(T) 9 8	9 8	10 0	4 0 0	4 0 0	3 13 0	Monghyr.
17 10	17 10	26 8	20 3	15 2	24 0	176 0	176 0	151 8	10 1	10 1	10 1	. ...	.		Bhagulpore
	.		16 0	16 0	20 0	200 0	200 0	120 0	(U) 9 0	9 0	8 8	4 5 0	4 5 0	4 8 0	Purneah
..			.	.		160 0	12[illegible] 0	12[illegible] 0	9 8	9 8	9 8	4 0 0	4 2 0	4 4 [illegible]	Maldah
18 0	18 0	30 0	22 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	10 0	4 3 0	4 3 0	3 14 0	Sonthal Perghs
															ORISSA
..	...	..	18 6	18 6	18 6	80 0	80 0	80 0	8 0	11 0	10 0	4 7 0	2 12 0	3 14 0	Cuttack
...	...		13 2	11 13	15 12	80 0	80 0	80 0	11 13	11 13	10 8	3 6 0	3 6 0	3 8 0	Pooree
..	..	..	...	...		160 0	160 0	20[illegible] 0	(V) 9 0	8 8	9 8	4 0 0	4 4 0	4 2 0	Balasore
															CHOTA NAGPORE
															South-West Frontier Agency
16 0	16 8	20 0	18 0	18 0	20 0	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 6 0	4 8 0	Hazaribagh
	16 8	18 8	16 0	17 0	best 19 0, ordinary 22 0	140 0	140 0	140 0	8 8	8 12	8 10	4 9 0	4 8 0	4 10 0	Lohardugga
22 0	...	...	16 0	15 0	20 0	20[illegible] 0	20[illegible] 0	240 0	7 0	7 0	8 0	5 8 0	5 8 0	.	Singbhoom
30 [illegible]	32 0	35 0	17 0	18 0	22 8	200 0	200 0	200 0	(W) 8 0	9 0	8 0	4 2 6	4 2 6	4 8 0	Manbhoom

T In sub-divisions retail prices of salt per rupee are :—Beguserai 9½ seers and Jamui 9 seers
U Retail price of salt at Kishengunge 10 seers per rupee.
V At Bhudruck retail price of salt 8 seers per rupee.
W At Govindpore retail price of salt 9 seers per rupee

Published for general information

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of

Number.	MARTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	R Present return.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A.
1	Calcutta ...	2 12 5	2 12 7	2 9 5	1 14 0	1 12 9	1 6 5	3 14
2	Serajgunge ...	2 8 0	2 4 0	1 15 0	...	...	...	3 10
3	Dacca ...	2 8 0	2 8 0	2 11 0	1 8 0	1 8 0	0 15 6	2 12
4	Naraingunge	...	...	...	...	...	...	2 8
5	Chittagong ...	3 9 0	3 9 0	3 8 0	...	...	...	3 6
6	Patna ...	2 10 0	2 5 0	1 14 0	1 9 0	1 10 0	1 5 6	3 12
7	Balasore ...	2 8 0	10 0	2 0	3 0 0	3 0 0	3 0 0	3 4
8	Pooree ...	...	...	...	...	...	...	...
9	Cuttack ...	2 10 0	3 0 0	2 0 0	...	...	...	3 10

CALCUTTA;
The 23rd April 1889.

OF 40 SEERS.

MARUA OR RAGI. (*Eleusine Coracana.*) Present return.	MARUA OR RAGI. Next preceding return.	MARUA OR RAGI. Corresponding return of last year.	KANGNI OR KAKUN. ITALIAN MILLET. (*Setaria italica.*) Present return.	KANGNI OR KAKUN. Next preceding return.	KANGNI OR KAKUN. Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...	1 13 8	1 8 0	2 13 8
..	...	...	...	...	...
...	...	..	...	...	...
...	..	...	...	...	...
..	..	...	..	..	.
...		...	2 8 0	2 8 0	1 14 0
..	...		.	..	...
..	...	...	.	.	...
...	..	.	.	..	...

undermentioned Marts of Bengal during the fortnight ending 15*th April* 1889.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 15 0	1 15 2	1 9 2	...	...	2 3 3	2 1 0	2 0 6	1 13 2	0 5 10	0 5 10	0 6 8	3 9 6	3 9 6	3 9 0	Calcutta.
2 7 0	3 4 0	2 10 0	...	...	...	...	...	...	...	...	...	3 12 0	3 13 0	3 12 0	Serajgunge.
3 0 0	3 0 0	2 7 0	...	...	...	2 8 0	2 8 0	2 4 0	0 5 0	0 5 0	0 5 0	3 14 0	3 14 0	4 4 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 10 0	0 8 0	0 8 0	3 12 0	3 12 0	4 0 0	Naraingunge.
3 8 0	3 8 0	2 12 0	...	...	...	...	...	..	0 5 0	0 5 0	0 5 0	4 0 0	4 0 0	4 2 0	Chittagong.
1 11 3	1 9 0	1 5 6	2 1 0	1 11 6	1 5 6	1 11 6	1 9 0	1 8 0	0 5 0	0 5 0	0 5 0	3 12 0	3 12 3	3 12 0	Patna.
2 14 0	2 14 0	2 6 0	...	..	...	.	...	...	0 4 6	0 4 6	0 4 0	4 0 0	4 4 0	4 2 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 8 0	Pooree.
1 11 0	1 11 0	1 11 0	...	...	...	2 0 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	4 7 0	2 12 0	3 14 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29 839	29 851	—	SW	205·0	89·7	13th April	78·5	17th & 18th April	88 7	79·1	83 9	—	81·5
		Gopalpore	29 816	29 860	+·002	SSW	576 0	87·7	13th & 16th April	79 8	13th & 14th April	87·3	81·0	84·2	+3·0	84 3
		False Point	29 814	29 856	+ 014	SSW	300 0	90 0	13th ,,	78 2	13th ,,	89 4	79 1	84·2	0	83 9
	Cuttack	Cuttack	29 771	29 852	+·026	SW	155 0	106·4	15th ,,	74·8	15th ,,	101·5	80 0	90·7	+0·7	85 4
	Balasore	Balasore	29 783	29·843	+ 024	South-Westerly	257·5	98 5	13th & 18th April	74·8	13th ,,	95·3	77·8	86 6	—0·5	82 8
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29 8 8	29 857	+·020	South Westerly	524·0	93·2	17th ,,	80·5	14th ,,	92 6	81 5	87 1	+2·4	84 5
	Midnapore	Midnapore	29 684	29 835	+ 023	S	152·9	105 4	18th ,,	75 3	14th ,,	101·9	77·9	89 9	—0 5	84·2
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29 815	29 835	+·012	Southerly	169·0	97·5	13th ,,	72 7	13th ,,	93 3	77 3	85·6	—0·1	82 4
	Burdwan	Burdwan	29 720	29 821	+ 006	S	98·2	103 5	19th ,,	74 4	15th ,,	101 1	78 2	89 7	+1·7	82 4
	Bankoora	Bankoora	29 506	29 807	—	Variable	110·0	106 4	18th ,,	77 1	14th ,,	104 0	78 6	91 3	—	84·5
	Beerbhoom, West Burdwan	Raneegunge	29 491	29 802	+ 020	Variable	77 5	107·0	18th ,,	76 5	14th ,,	104 2	78·8	91·5	+1 8	87·3
	Moorshedabad	Berhampore	29 760	29·828	+·018	Southerly	127·5	104·7	18th ,,	80·3	18th ,,	103 1	76 8	90·0	+1·9	81·7
	Nuddea	Krishnaghur	29 776	29 843	+·037	WSW	109 4	102 8	13th ,,	74 0	13th ,,	99 9	76 8	88 4	+1·1	83 1
	Jessore, Khoolna	Jessore	29 816	29 850	+·021	Southerly	92 4	101 8	13th ,,	71 4	15th ,,	96 8	76·2	86 5	—0·2	83 0
East Bengal.	Chittagong	Chittagong	29 850	29 920	+·030	S	139 2	94 2	16th ,,	69 0	15th ,,	91 4	74 4	82 9	+0 9	82 5
	Chittagong Hill Tracts	Demagiri	Observations not received													
	Backergunge	Barrisal	29 855	29 867	+ 037	S	160·3	96·8	13th April	68 4	15th ,,	92·9	75 8	84 4	+1 0	82 5
	Noakholly	Noakholly	29 857	29 876	+ 038	SW	175 0	91 7	14th ,,	65 9	15th ,,	90 0	73 3	81·6	—0 9	83 3
	Furreedpore	Furreedpore	29 823	29 860	+ 0.8	S	162 0	101 5	13th ,,	67 9	15th ,,	94 5	75 3	84 9	—1·0	80·4
	Dacca	Dacca	29 840	29 863	+ 022	SSE	131 7	97 6	13th ,,	64 3	15th ,,	94 3	74 4	84 6	+0·6	80 9
	Tipperah	Commillah	29 856	29 872	+·016	S	96 6	95 3	13th ,,	65 8	15th ,,	93 4	72 6	83 0	0	78 8
	Mymensingh	Mymensingh	29 808	29 868	+·015	ESE	163 6	100 1	13th ,,	66 2	15th ,,	85 7	71 1	78·4	—4 1	71·4
North Bengal.	Bogra	Bogra	29 770	29 834	+ 053	E & C	128 4	102 8	15th ,,	70 8	15th ,,	99 2	72 6	85 9	—1 1	79 7
	Pubna	Serajgunge	29 795	29 845	+ 034	E	112 5	102·0	13th ,,	67 1	15th ,,	97 3	71 8	84 6	—1 3	78 8
	Rajshahye	Rampore Beauleah	29 761	29 832	+·042	S & SW	133 3	102 8	13th & 18th April	72·7	14th ,,	99 8	75 8	87 8	+1 7	81 6
	Maldah	Maldah	29 750	29 811	—	SE	86 1	103 8	18th & 19th April	70 9	18th ,,	103 1	72 0	87 6	—	83·2
	Dinagepore	Dinagepore	29 723	29 844	+ 018	NE	155 0	100 1	13th & 15th April	68 6	14th ,,	97 0	72 0	84 5	—0 3	77·9
	Rungpore	Rungpore	29 741	29 868	+ ·081	ENE	162 0	97 8	15th ,,	68 5	14th ,,	93 8	70 1	82 0	—0 3	76 8
	Julpigoree, Cooch Behar	Julpigoree	29 681	29 874	+ 067	E	9[illegible] 9	92 2	14th ,,	64 8	17th ,,	90 1	66 3	78·2	—2·0	75·9
	Darjeeling Hill Tracts	Darjeeling	22 979	—	+·028	Variable	300 5	62 3	14th ,,	45·1	17th ,,	57 9	47 2	51 8	—4·2	52·4
North Behar.	Purneah, North Bhagulpore	Purneah	29·711	29·839	+·041	E	89·7	100 3	13th & 14th April	68 0	14th ,,	98 6	71·8	85 2	+1·3	79 5
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29 650	29 819	+·028	ENE	158 0	96·2	15th April	74 8	15th ,,	95 2	75 9	85 6	+1·3	77·7
	Chumparun	Motihari	29 620	29 851	+·078	E	232 0	100 8	13th ,,	64 8	14th ,,	98 6	69 8	84 2	+0·8	79·5
	Sarun	Chupra	29·611	29 807	+ 024	SE	138 8	102 8	18th ,,	71 7	15th ,,	101·4	72 9	87·1	+0 7	84·3
South Behar.	Shahabad	Dehree	29 456	29 810	+ 017	SSW	211 1	107 4	19th ,,	75·0	16th ,,	103 3	76 7	90 1	+1·7	85·8
		Buxar	29 561	29 804	+ 009	SE	112 7	104 4	19th ,,	71 3	15th ,,	101 3	74 0	87 7	—0 2	83 4
		Arrah	29 618	29 816	+ 038	Easterly	72 1	105·3	19th ,,	71 1	15th ,,	101 4	73 4	87 4	0	83·0
	Gya	Gya	29·451	29 829	+ 029	Variable	143 0	106 8	19th ,,	72 0	15th ,,	103·4	75 3	89 3	+0·4	84·5
	Patna	Bankipore	29 628	29 813	+ 020	Variable	97 0	104 7	19th ,,	71 8	17th ,,	102 4	73 5	88·0	+1·0	80 8
	South Bhagulpore, Monghyr	Bhagulpore	29 644	29·807	+·034	Variable	104 0	102·3	13th ,,	69·5	15th ,,	99·8	73·8	86·8	+1·0	81 2
	Sonthal Pergunnahs	Doomka	29 321	29 818	+·051	Calm	97 5	106 5	19th ,,	74·3	14th ,,	102 4	70·3	89·4	+0·4	84 9
Chota Nagpore.	Hazaribagh	Hazaribagh	27 842	29·823	+ 025	W	219·1	101·6	19th ,,	70·7	15th ,,	98 5	73·3	85·9	+1·6	85·8
	Lohardugga, Manbhoom	Ranchee	27·726	29 824	+·036	Calm	110·1	100 5	17th ,,	68·9	16th ,,	97·9	72 9	85 5	—0·2	85·5
	Singbhoom	Chyebassa	29 068	29 830	+·040	SSW	57·1	108·1	19th ,,	73 7	15th ,,	103·7	70·4	90·1	—0·5	84·8

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least undredth of an inch fell.

for the week ending Friday, the 19th of April 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1888. Mean for district.	Since 15th May 1888. Normal mean.	Since 15th May 1888. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
87	7·6	Nil	Nil	0·14	0 03	0 50	−0·56	44 80	57·91	−13·11	0·0	0·7	Pooree	Pooree	Orissa.
81	0·3	Nil											Gopalpore		
88	7·0	Nil											False Point		
75	4·1	0 64	0·67	0·29	0·67	0·57	+0·10	53·81	54·50	−0·69	1·0	0 7	Cuttack ...	Cuttack	
81	2·1	0 10	0·14	0·35	0·39	0·83	−0 24	55·30	56 50	−1·20	0·3	0·6	Balasore .	Balasore	
78	6·[illegible]	Nil	Nil	0·32	0·43	0·60	−0·18	57·17	65·64	−8·47	0·0	0·7	Saugor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
71	1·8	0·02	0·14	0·38	1·07	0 67	+0·40	66·34	54 86	+11·48	0·7	0 6	Midnapore ...	Midnapore	
78	4·7	Nil	0 02	0 31	1·00	0·78	+0·22	66 10	55·20	+10·90	0·2	0·8	Calcutta ...	24-Pergunnahs... Howrah ... ... Hooghly	
72	5·0	0·35	0·12	0 55	0 92	0 97	−0 05	57·84	50·10	+7·74	0·3	1 1	Burdwan ...	Burdwan	
65	1·7	Nil	Nil	0·20	1·17	0·40	+0·77	55·19	54·50	+0·69	0·0	0 5	Bankoora ...	Bankoora	
63	1·3	Nil	Nil	0·20	0·09	0·53	−0·44	59 77	53 76	+6·01	0·0	0·6	Raneegunge ..	Beerbhoom ... ... West Burdwan ...	
81	7·4	Nil	0·45	0·34	0·53	0·69	−0·16	50 49	52 95	−2·46	0 7	0·7	Berhampore ..	Moorshedabad	
73	5·6	Nil	1·16	0 61	2·08	1 41	+0·67	58 31	53 38	+4·93	0·8	0 9	Krishnaghur ...	Nuddea	
80	6·6	1 82	0 87	0 71	1·47	1 46	+0·01	47 32	58 03	−10·71	1 1	1·2	Jessore ...	Jessore ... ... Khoolna	
75	8·9	0·21	0 08	0 47	0·08	1 03	−0·95	127·12	117·62	+9 50	0 5	1·0	Chittagong ..	Chittagong	East Bengal.
			Nil	0 62	0·05	1·90	−1 85	74 46	87·20	−12 74	0·0	1 0	Demagiri ..	Chittagong Hill Tracts	
80	2·4	0·18	0 37	0·68	0·86	1 31	−0·45	75·04	81·56	−6·52	1 0	1·1	Barrisal ...	Backergunge	
75	4·7	0 42	0·22	0 74	0 88	2 24	−1 36	111 43	114 25	−2·82	1·0	1·2	Noakholly ..	Noakholly	
85	3 4	1 78	1·83	0 67	2·25	1·60	+0 68	50·97	61 58	−10·61	2·7	1·0	Furreedpore ...	Furreedpore	
83	6·3	1 51	0 84	0 76	1 33	2·05	−0·72	58·11	66·28	−8·17	2 3	1·4	Dacca ..	Dacca	
86	3·9	0·51	1 49	1·04	2·11	2 59	−0·48	65 41	77 08	−11·67	2·0	1·6	Commillah ..	Tipperah	
81	6·7	3·73	2·90	0·63	3·19	1·48	+1·71	70·73	71·97	−1·24	2 8	1 4	Mymensingh .	Mymensingh	
75	8 9	Drops	0·18	0·22	0·20	0 57	−0·37	46·67	59·70	−13·03	0 8	0 5	Bogra ...	Bogra	North Bengal.
70	5·4	0·50	1·35	0·43	1·42	1 32	+0·10	43·91	57·28	−13·37	3·5	1·1	Serajgunge ..	Pubna	
70	3 3	0 14	0 63	0·23	0·72	0 67	+0·05	48 66	56 33	−6 67	1 0	0·6	Rampore Beauleah	Rajshahye	
54	2·0	Nil	Nil	0·29	Nil	0 49	−0·49	43·85	55 88	−12·03	0·0	0·5	Maldah ..	Maldah	
67	4·4	Nil	Nil	0·14	Nil	0 27	−0·27	49·52	58 86	−9·34	0·0	0·5	Dinagepore ...	Dinagepore	
75	5·0	0·85	0·86	0 45	0 86	1·14	−0·28	60·26	76 86	−16 60	1·8	0·9	Rungpore ...	Rungpore	
72	2 3	Drops	0·20	0·71	0·20	1·52	−1 32	90 54	114·97	−24·43	1 4	1 2	Julpigoree ...	Julpigoree ... ... Cooch Behar	
93	7·9	2·00	0·80	0 82	1·07	1·95	−0·88	106·24	126 00	−19 85	3·3	1·6	Darjeeling ...	Darjeeling Hill Tracts	
65	3 0	Nil	0·10	0·21	0·10	0·42	−0 32	51·39	60 07	−8 68	0·2	0·4	Purneah ...	Purneah ... ... North Bhagulpore ...	North Behar.
			Nil	0 24	Nil	0·31	−0·31	44·01	44 75	−0·74	0·0	0·4	Mozufferpore ...	Mozufferpore	
61	0·8	Nil	Nil	0·20	Nil	0·27	−0·27	43·20	45·70	−2·50	0·0	0·5	Durbhunga ...	Durbhunga	
59	2·6	Nil	Nil	0·24	Nil	0·38	−0·38	44·81	47·96	−3·15	0·0	0 5	Motihari ..	Chumparun	
55	0·3	Nil	Nil	0·05	Nil	0·10	−0·10	41·68	43·71	−2·03	0 0	0·3	Chupra ...	Sarun	
33	0	Nil											Dehree ...	Shahabad	South Behar.
36	0·1	Nil	Nil	0·02	Nil	0·12	−0·12	44·42	40·95	+3·47	0·0	0·2	Buxar ...		
43	0·1	Nil											Arrah ..		
45	0·4	Nil	Nil	0·04	0·02	0·17	−0·15	52·89	42 62	+10·27	0·0	0 2	Gya ...	Gya	
58	0	Nil	Nil	0·05	Nil	0·11	−0·11	51·21	42·16	+9·05	0·0	0·2	Bankipore ...	Patna	
68	0·4	Nil	Nil	0·13	Nil	0 29	−0·29	52·38	44·38	+8·00	0 0	0·3	Bhagulpore ...	South Bhagulpore ... Monghyr	
61	0	Nil	Nil	0·17	0·24	0·37	−0·13	55·62	52·20	+3·42	0·0	0·4	Doomka ...	Sonthal Pergunnahs ..	
24	0·3	Nil	Nil	0·04	0·63	0 11	+0·52	59 22	52·00	+7 22	0·0	0·2	Hazaribagh ...	Hazaribagh	Chota Nagpore.
32	0·8	Nil	Nil	0·10	0·40	0·25	+0·24	52·79	50·78	+2·01	0·0	0 4	Ranchi ...	Lohardugga	
			Nil	0·18	0·66	0·41	+0·25	48·80	49·08	−0·58	0·0	0·5		Manbhoom ..	
58	0·9	0·09	0·09	0·26	1 19	0·43	+0·76	42·49	54·03	−11 54	1·0	0 7	Chyebassa ...	Singbhoom .. .	

'he variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
lenoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
'ears. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 19th of April 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 13th April 1889.	Sunday, 14th April.	Monday, 15th April.	Tuesday, 16th April.	Wednesday, 17th April.	Thursday, 18th April.	Friday, 19th April.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·26	41·24	52·91
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	0·10	0·34	44·65	58·27
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	37·00	52·56
		False Point ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·40	56·28	68·15
		Gop ...											?		?
		Pipli .											?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·28	58·64	48·75
		Banki ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	45·05	53·18
		Cuttack ...	...	0·83	...	...	...	...	...	1	0·83	0·83	0·70	53·87	58·98
		Kendrapara ...	...	0·72	...	...	...	...		1	0·72	0·72	0·50	47·32	55·50
		Jajpore ...	0·58	...	...	...	...	...		1	0·58	0·58	1·17	62·98	57·60
		Dharmsala ...	1·25	...	...	...	...	...	...	1	1·25	1·25	?	58·98	?
		Salipore ...	...	0·70	...		...	...	...	1	0·70	0·70	?		?
	Balasore ...	Chandbali ...	0·80	...		...	...	...	...	1	0·80	0·80	0·53	53·95	54·86
		Bhuddruck ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·27	51·00	55·66
		Sorah ...	...	...		...	...	...	...	Nil	Nil	1·20	0·97	53·09	54·48
		Balasore ...	...	...	...	...	...	...	...	Nil	Nil	1·51	1·21	59·20	61·08
		Jellasore ..	...	...	...		...	...	...	Nil	Nil	Nil	0·48	56·99	55·32
		Baripodah ...	0·05	...	...	0·58	...	...	...	2	0·63	1·73	0·52	57·88	56·31
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·47	52·64	64·10
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0·53	53·60	70·07
		Tumlook ...	...	...	...		...		...	Nil	Nil	0·70	0·52	67·90	54·70
		Midnapore ...	...	...	...	...	...	0·20		1	0·20	1·37	0·55	71·59	51·80
		Ghattal ...	...	...	...	0·23	...	...	...	1	0·23	1·14	0·96	59·53	58·01
		Kukrahaty ...	...	...	...	...	...	...	...	Nil	Nil	1·09	?	68·60	?
		Herta ...	...	...	...	...	...	...	...	Nil	Nil	0·12	?	54·08	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·18	?
		Garbetta ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour ..	...	...	...	...	...	...	...	Nil	Nil	1·27	0·81	60·27	62·48
		Canning Town		...	...	...	...	...	...	Nil	Nil	1·05	?	58·03	?
		Alipore Jail ..	...	...	...	...	...	...	...	Nil	Nil	1·23	0·79	67·21	50·50
		Barrackpore ...	...	...	...	...	...	...	...	Nil	Nil	0·83	0·73	64·32	51·98
		Dum-Dum ..	...	...	...	...	...			Nil	Nil	0·66	0·76	68·28	55·16
		Baraset ..	...	...	...	...	...		...	Nil	Nil	0·40	0·66	68·24	52·78
		Busserhat ...	...	...	...	...	...			Nil	Nil	0·62	0·55	53·95	58·21
	Howrah ...	Howrah .	...	...	...		...	...	...	Nil	Nil	1·18	1·06	70·51	55·73
		Mohesreka (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	0·89	0·61	63·86	55·21
	Hooghly ..	Serampore ...	...	...	...	...		...		Nil	Nil	0·88	0·83	69·80	53·48
		Hooghly ...	...	...		0·08	...	...	...	1	0·08	1·70	0·92	69·81	51·56
		Johanabad ...	...	...	...	0·09	...	...	...	1	0·09	1·54	0·87	64·89	58·30
	Burdwan ...	Culna ..	...	...	...	...		...	...	Nil	Nil	1·04	1·04	62·72	47·71
		Burdwan ...	...	...	...	0·35	...	...	...	1	0·35	1·36	0·96	48·73	51·18
		Cutwa ...	...	...	...	...		...	...	Nil	Nil	0·54	0·91	62·05	51·09
		Raneegunge ..	...	...	...		...	...	...	Nil	Nil	0·10	0·50	59·42	50·81
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	0·42	?	45·22	?
	Bankoora ...	Bankoora ...	...	...	...	...		...	...	Nil	Nil	1·44	0·68	51·50	54·10
		Bishenpore ...	...	...		...	...	...	...	Nil	Nil	1·05	0·52	58·38	54·06
		Maliara ...	...	...	...		...	...	...	Nil	Nil	0·40	0·18	52·55	53·37
		Khatra ...	...		...	...	...	...	...	Nil	Nil	1·78	0·24	58·47	56·22
		Indas ...	...	...		...	...	...	...	Nil	Nil	1·68	?	43·89	?
		Kotulpore ...	...	...		...	...	...	...	Nil	Nil	1·20	?	51·38	?
		Anda ...	...			...		...	...	Nil	Nil	0·25	?	39·76	?
		Gangajalghati	...	...	...	...	...	...		Nil	Nil	0·25	?	58·51	?
		Raipore ..	...	...	...	...	...	...		Nil	Nil	0·86	?	57·21	?
		Sonamukhi ..	...	...	...	...	...	...	...	Nil	Nil	1·53	?	49·45	?
	Beerbhoom ...	Bh. Soory ...	...	...	...	...	...	...	...	Nil	Nil	0·03	0·45	56·10	55·77
		Hetampore ..	...	...	...	...			...	Nil	Nil	0·12	0·45	49·94	56·15
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	0·11	0·73	73·58	53·72
		Bolpore ...	...	...	...	...		...	...	Nil	Nil	0·18	?	64·40	?
		Murarai ..	...	...		...	...	...	...	Nil	Nil	Nil	?	?	?
	Nuddea ...	Ranaghat ...	...	...	...	...	...		...	Nil	Nil	0·92	1·63	66·07	51·16
		Kishnaghur ...		...	...	...	...	...		Nil	Nil	0·51	1·21	76·88	49·48
		Chooadanga ...	...	...	...	0·45		...	...	1	0·45	0·75	1·37	55·67	55·38
		Meherpore ...	...	...	...	4·50	...		...	1	4·50	7·39	1·48	60·52	52·18
		Kooshtea ..	...	...	...	0·46	...	...	0·39	2	0·85	0·85	1·35	38·41	58·72
	Khoolna ..	Satkhira ..	...	...		...	...	...	...	Nil	Nil	0·74	1·15	42·32	59·72
		Bagirhat ...	...	...	0·51	...	...	...		1	0·51	1·28	1·76	53·29	66·42
		Khoolna ...	...	...	0·24	...	...	...	0·23	2	0·47	1·16	1·45	51·00	59·66
	Jessore ...	Narail ...	...	...	1·77	...	...	...	...	1	1·77	2·47	1·34	35·02	50·56
		Jessore ...	...	...	1·07	0·75	...	...	...	2	1·82	2·59	1·60	60·80	59·54
		Jhenidah ...	...	...	...	1·85	...	...	...	1	1·85	1·85	1·66	38·94	58·47
		Magoorah ...	...	...	...	0·15	...		0·39	2	0·54	0·85	1·63	45·35	53·52
		Bongong ..	...	...	...	...	...		...	Nil	Nil	0·82	1·10	51·74	55·75
	Moorshedabad	Kandi ..	...	...		...	...		...	Nil	Nil	0·10	0·78	53·50	52·05
		Berhampore ..	...	...	...	...	...	...		Nil	Nil	Nil	0·78	43·62	54·16
		Lalbagh ...	...	...		...	...	0·05	...	1	0·05	0·08	0·50	49·19	53·05
		Azimgunge ...	...	...	0·95	...	...	...	...	1	0·95	1·45	0·85	?	53·67
		Jungipore ...	...	...	1·13	...	...	...		1	1·13	1·47	0·69	50·98	51·16
		Lalgola ...		...	0·55	...	...	...	...	1	0·55	0·55	0·57	54·84	53·34
		Jiagunge ...	...	...	0·25	0·12	...	...	...	2	0·37	0·69	?	50·09	?
		Akhrigunj ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·08	?
		Pathabari ...	...	...	0·50	...	...	...	...	1	0·50	0·50	?	44·70	?
EAST BENGAL	Chittagong ..	Cox's Bazar ..	...		...	...	...	...	...	Nil	Nil	Nil	0·82	147·50	136·91
		Chittagong ...	...	...	0·15	...	...	...	...	1	0·15	0·15	1·22	100·71	98·40
		Kutubdia ...	...	...		...	...	...	...	Nil	Nil	Nil	?	117·82	?
		Satkanya ...		...	...	...	...	...	...	Nil	Nil	Nil	?	92·32	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	Nil	Nil	0·10	1·75	77·21	89·55
		Ruma ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·03	71·09	83·82
	Backergunge	Patuakhally ..	...	...	0·32	...	...	...	...	1	0·32	0·77	0·84	80·39	91·30
		Perozepore ...	...	...	0·79	...	...	...	...	1	0·79	1·46	1·27	64·04	74·25
		Burrisal ...	...	...	0·17	...	...	...	...	1	0·17	0·69	1·74	68·91	73·24
		Bhola ...	...	...	0·18	...	...	...	...	1	0·18	0·50	1·38	78·06	86·24

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 19th of April 1889 —contd.

Meteorological Division.	District.	Station.	RAINFALL: Saturday, 13th April.	Sunday, 14th April.	Monday, 15th April.	Tuesday, 16th April.	Wednesday, 17th April.	Thursday, 18th April.	Friday, 19th April.	TOTAL: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi* ..	...	...	0·05	...	...	...	...	1	0·05	1·16	?	52 99	?
		Bauphal ...	0·03	...	0 20	...	...	...	...	2	0·23	1·32	?	101 09	?
	Noakholly	Noakholly	0 20	...	0·24	...	...	...	.	2	0·44	0·44	1·90	112·10	114·25
		Fenny	...	...	..	...	...	.	.	Nil	Nil	1·30	2 48	110 73	114 18
		Harishpore ...	...	..	0·11	...	...	...	.	1	0 11	0·11	?	131 33	?
		Ramganj ..	...	...	...	...	...	...	...	Nil	Nil	0·82	?	91 43	
	Furreedpore	Madaripore .	...	0·28	...	...	...	...	...	1	0·28	0·98	1·63	48·01	61·29
		Furreedpore ..	...	1·40	0·42	...	.	..	0 16	3	1·98	2·65	1 65	56 34	62·26
		Goalundo .	...	0 58	0·24	...	0·85	1·57	...	4	3 24	3·24	1 51	48·60	57 96
	Dacca ...	Munshigunge	...	0·16	0·15		...	...	.	2	0·31	1·62	2·50	63·39	78 06
		Dacca	...	1·42	...		..		0·08	2	1 50	1 50	2 27	55·30	64 81
		Narainganj	..	0·22	0 02	.	...	..		2	0·24	0·87	1 85	64 83	66 36
		Manickgunge	.	1·00	0 10	...	..	...	0·21	3	1 31	1 31	1 60	48·94	54 78
		Joydebpore	...	0·69	0·20	..	0 94	...	0·46	4	2·29	2·46	?	61·96	-
	Hill Tipperah	Agartola ..	..	...	1·52	..	0·80	...	...	2	2·32	2·32	2 44	56 74	69·53
	Tipperah .	Comilla ..	..	...	0 46		...	...		1	0 46	2·56	2 70	72 73	83 35
		Chandpore .	0·22	...	0·38	...	.	..	...	2	0·60	0 80	2 68	59 97	85 08
		Brahmunberia	...	...	0·94	...	0 79	0·84		3	2 57	2 75	2 55	73 00	69·82
		Ramchandra-pore.	.	...	0 33	...	0·21	0 03	...	3	0·57	1·35	?	62 21	?
		Nasirnagar ..	..	..	0·60	.	0·06	0 10	...	3	0 76	1·94	?	61 23	?
		Daudkandi ..	...	...		...		..	...	Nil	Nil		?		?
		Kasba .	..	..	0·70	.	..	0 73	...	2	1·43	1·51	?	58 61	?
		Laksham ..	...	...	.	...	...	...	...	Nil	Nil	Nil	?	81·41	?
	Mymensingh..	Kishoregunge		0·17	.		1·31	0·21	...	3	1·69	3·07	2 19	86 61	73 15
		Atia (*Tangail*)	...	...	0 65	.		0 42		2	1 07	1 07	1 11	40 19	59 [illegible]
		Mymensingh	.	.		0 84	2·46	0 04	0·80	4	4 14	4 14	1 69	74 21	78·82
		Jamalpore	..	...	...		0 53	...		1	0 53	0·53	1 22	67 51	68 96
		Netrokona		.	.	2 67	3 00	0 13	1·27	4	7 07	7 14	1 16	85 11	76 44
		Subornakhalli	...	0·17	..	0 08	1 55	...	0·40	4	2 20	2 20	?	64 57	-
		Durgapore	...		..	1 20							?		-
		Sherepore town		0·24	...		1·95	.	0·31	3	2 50	2·50	?	?	-
		Dewanganj		...	...	.	1 65	..	1·18	2	1 81	1 81	?	57 57	?
NORTH BENGAL	Pubna	Pubna ..	..	..	0·05	1·39		0·28	0·49	4	2 21	2·26	1 44	43·15	58·08
		Serajgunge	.	..	.	0 02	0 18		0 29	3	0·49	0 58	1·18	44 67	56 32
	Bogra .	Sherpore .	...	..	...	...	.	...	0 01	1	0 01	0 08	0 48	43·81	60 68
		Nowkhilla ...	..	...	..		0·40	...	0 30	2	0 70	0 70	0 53	52 57	57·27
		Bogra ...	...	..		..	..	...	.	Nil	Nil	Nil	1 00	43 51	63 28
		Panchbibi		...	..	..	.	..	.	Nil	Nil	Nil	0 27	46 93	57 46
	Rajshahye	Beauleah	..		0·11			..	.	1	0·11	0·16	0 52	34·08	55·11
		Nattore	..	..	1 15	.		.	..	1	1 15	1 28	0 81	63 26	57 57
		Naogaon .		.		..		.		Nil	Nil	0 05	?	59 68	?
		Lalpore ...	...		0 05				1 12	2	1 17	1 17	?	41 20	?
		Manda .	..				...			Nil	Nil	Nil	?	37 5[illegible]	?
	Maldah ..	Maldah		...	.		.	..	..	Nil	Nil	Nil	0 49	51 85	53·44
		Chanchal ...			.			..		Nil	Nil	Nil	0 49	35 79	58 23
		Gajol .	.		..	.	...	..	.	Nil	Nil	Nil	?	40 51	?
		Sibganj ..	...		..	..	...	.	..	Nil	Nil	0·32	?	49 10	?
	Dinagepore ...	Mohadebpore	.		..	.	..	..	...	Nil	Nil	Nil	0 22	41·24	59·99
		Churamon .	.	.	..			.		Nil	Nil	Nil	0 18	60 79	54 22
		Raigunge ..	..	.	.	...		..	.	Nil	Nil	Nil	0 32	55 56	60 75
		Dinagepore .	...	.		...	..		.	Nil	Nil	Nil	0 59	59 74	66 06
		Baloorghat	.	.			...			Nil	Nil	Nil	0 07	42 13	54 40
		Thakoorgaon	.	..	..	0 52			.	1	0 52	0·52	?	53 74	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	..	.	.	.	1 64	.	..	1	1 64	1 64	1 02	50 19	64 64
		Rungpore ...	...	..	...	..	0 20		0·62	2	0 82	0·82	0 91	5[illegible] 52	77 21
		Kurigram ..	.	.	..				0 10	1	0 10	0 10	1 73	76 86	77 52
		Bagdogra (*Nilphamari*).	...	.	.	0 45	0·20		0 24	3	0 89	0 89	0 87	67·57	87 77
		Ulipore ...	...	...	...	..	0·25		0 62	2	0 87	0 87	?	58·20	?
	Julpigoree ...	Julpigoree ..	..	..	...			.	.	Nil	Nil	Nil	1·57	107 10	121 55
		Alipore Duar	..	..	...		2 20		...	1	2 20	3 00	?	88 58	?
		Fallacotta ...	...	..	.	..	2 55	0 45		2	3 00	3 00	?	96 02	-
		Debiganj ...	..				..			Nil	Nil	Nil	?	64 28	?
		Bhagatpore (Nagrakatta).	...	.		0 08		0 29	..	2	0 37	0·85	?	?	?
	Cooch Behar..	Dinhatta .	...	.		0·11	..		0 22	2	0·33	0·33	1 37	93·94	96 59
		Cooch Behar..	..	.	.	.	0 12	0·18		2	0·30	0 30	2 19	94 88	123 21
		Mekligunge						.		Nil	Nil	Nil	0 85	79 07	110 89
		Matabhanga ..	...				0 02	0 12	0 03	3	0 17	0 17	1 52	77 49	120 88
	Darjeeling Hill	Buxa			0 05	0 08	.	..	0 13	3	0 26	0 96	3 93	167 50	200 79
		Silliguri ..		.		0 19			0 17	2	0 36	0 56	0 79	87 07	106 28
		Darjeeling ..	..	.	0·19	0 89	0 24	0 01	0 61	5	1 94	2 30	2 02	95 36	113 51
		Kalimpong .		0 22	0 02	0 38			0 16	4	0 78	0 78	1 64	75 08	86 98
NORTH BEHAR	Purneah ..	Kissengunge ..	..		..	0·47			.	1	0 47	0 47	0 37	50 03	71 97
		Arrareah .	.	.			.		..	Nil	Nil	Nil	0 55	53 47	65 47
		Purneah			.	..			..	Nil	Nil	Nil	0 52	46 85	62 86
		Gondwara ..	...			.				Nil	Nil	Nil	?	-	
		Balarampore	.	.		.	.			Nil	Nil	Nil	?	?	?
		Matiari ..						..		Nil	Nil	Nil		?	
		Kaliaganj .				0·38	.	.		1	0 38	0 38	?	60 05	?
	North Bhagulpore.	Maddipore	..							Nil	Nil	Nil	0 28	61 06	50·91
		Soopool	..	.			..			Nil	Nil	Nil	0 54	45 53	49 45
		Protabganj .	..		.		.	..	.	Nil	Nil	Nil		41 14	?
	Durbhunga	Tajpore	...		.		.	..	..	Nil	Nil	Nil	0·16	46·10	45 99
		Durbhunga .				...	.	...		Nil	Nil	Nil	0·30	39 21	46 98
		Madhubani .				..	...	..	.	Nil	Nil	Nil	0 54	44 32	46 34
		Bahera ...				..	...			Nil	Nil	Nil	?	65·51	
		Roshera ..	...	..	..	...	...		..	Nil	Nil	Nil	?	47·09	
	Mozufferpore	Sitamarhi .	...		...	.	...	..	...	Nil	Nil	Nil	0·08	36 51	44·79
		Mozufferpore			...	..	.	.		Nil	Nil	Nil	0·22	46·10	46·80
		Hajipore ..				..	.	..	..	Nil	Nil	0·01	0·06	49 42	42 95
		Paru ...				...	.		..	Nil	Nil	Nil	?	40 09	?
		Mahua ..	.	...	...	.	.	..		Nil	Nil	Nil	?	40·29	?
		Seuhar ...			..	..	.		..	Nil	Nil	Nil	?	42·94	?
		Pupri ..	..	..	...		...	...	...	Nil	Nil	Nil	?	25 56	?
	Chumparun.	Motihari ..		..	.	...	.	..	.	Nil	Nil	Nil	0·38	40 03	45 80
		Bettiah ...	.	...		..	..	...	...	Nil	Nil	Nil	0 37	49 54	49·90
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·22	?
		Burhurwa ..		.	...	...	...	...	...	Nil	Nil	Nil	?	43 17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 19th of April 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 13th April 1889.	Sunday, 14th April.	Monday, 15th April.	Tuesday, 16th April.	Wednesday, 17th April.	Thursday, 18th April.	Friday, 19th April.	TOTAL. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	41·34	44·70
		Sewan	...	...	...		...	...	...	Nil	Nil	Nil	0·09	44·44	44·79
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	30·25	41·59
SOUTH BEHAR	Shahabad	Buxar	...		...	...	...	...	...	Nil	Nil	Nil	0·12	43·33	39·31
		Dehree	...		...	...	...	...	...	Nil	Nil	Nil	0·13	46·13	39·95
		Bhubooah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	42·22	42·57
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	44·11	41·54
		Arrah	...		...	...	...	...	...	Nil	Nil	Nil	0·15	46·34	41·28
		Mohania	...		...	...	...	...	...	Nil	Nil	Nil		36·29	?
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0·07	0·13	55·21	43·75
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	56·01	43·64
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	51·18	41·17
		Jehanabad		...	...	...	...	...	...	Nil	Nil	Nil	0·16	49·12	41·65
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·66	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43·15	?
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...		...	...	...	Nil	Nil	Nil	?	28·58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·91	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·09	43·51	42·78
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·17	45·24	42·28
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	56·62	43·00
		Barh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	59·01	40·65
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil		41·05	
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	Nil		50·16	
	Monghyr	Begoosarai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·15	51·78	41·12
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	56·93	47·61
		Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	52·50	44·40
		Gogri	...	...	...	...		...	...	Nil	Nil	Nil	?	64·76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·46	56·73	43·46
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	44·01	40·04
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil		53·84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·52	48·72	53·19
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0·34	52·17	46·44
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0·49	0·26	65·66	56·46
		Nya Doomka	...	...	...	...		...	...	Nil	Nil	0·59	0·57	55·21	55·21
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	0·32	54·00	51·69
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	0·34	0·19	57·93	49·51
		Mohagama	...	...		...	...	...	...	Nil	Nil	Nil			?
		Nunihat	...	...	...	...	...	...	...	Nil	Nil	Nil		29·74	?
CHUTIA NAGPUR.	Hazaribagh	Pachamba (Giridi).	...	...	...	...	...	...	...	Nil	Nil	0·35	0·22	58·86	49·01
		Hazaribagh	...		...	...	...		...	Nil	Nil	0·42	0·22	57·28	49·67
		Sumlagurian		...		...			...	Nil	Nil	1·11	0·05	57·80	47·60
		Mahudi Hills		...	...	...	...	...		Nil	Nil	Nil	0·05	55·87	49·87
		Jhoomra Hills			...	...	...	...		Nil	Nil	Nil	Nil	64·90	63·64
		Barhi	...	...	...		...	...	...	Nil	Nil	Nil	?	51·49	
		Chatra	...			...	...	...		Nil	Nil	0·18	?	58·40	?
		Karagdeha	...	...		...			...	Nil	Nil	Nil	?	54·60	?
		Ramghur	...	...			...	...	...	Nil	Nil	Nil	?		?
	Lohardugga	Lohardugga	...	...	...	...		...	...	Nil		0·76	0·11	50·10	53·66
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	0·63	0·41	54·57	54·74
		Palamow	...	...		...		...	...	Nil	Nil	0·08	0·22	53·68	44·71
		Silli		...		...	...	...	...	Nil	Nil	0·40	?	?	?
		Balumat	...			...	...	...		Nil	Nil	Nil	?	?	?
		Hosseinabad	...	...		...		...	...	Nil	Nil	0·23	?	?	?
		Garwah	...			...		...	...	Nil	Nil	Nil	?	48·08	?
	Singbhoom	Chyebassa	0·00	...		...	...	...	...	1	0·09	1·19	0·43	42·49	54·18
		Chakradharpore.	...	...		...	...	...	...	Nil	Nil	0·85	?	56·52	?
		Ghatsilla						...	...	Nil	Nil	0·94	?	60·13	?
		Bahoragura	...			...		...	...	Nil	Nil	Nil	?	62·32	?
	Manbhoom	Purulia	...		...	...	...	...	...	Nil	Nil	1·20	0·48	59·45	51·52
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	0·11	0·35	38·11	46·76
		Raghunathpore.	...	...		...	...	...	...	Nil	Nil	0·04	?	55·87	?
		Barrabhoom	...	...		...	...	...	...	Nil	Nil	1·93	?	53·65	?
		Jhalda													
		Chas													

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 23*rd April* 1889.

REGISTERED No. 29.

No. 18 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MAY 1, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 *and* 25 *Vic., cap.* 67.

THE Council met at the Council Chamber on Saturday, the 20th April, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARI GHOSE.

The HON'BLE RAJA RAMESHWAR SINGH, BAHADUR.

NEW MEMBER.

The HON'BLE RAJA RAMESHWAR SINGH BAHADUR took his seat in Council.

EMIGRANTS' SANITATION BILL.

The HON'BLE MR. NOLAN presented the report of the Select Committee on the Bill to provide for the sanitation of emigrants during their passage through Bengal to the labour districts in Assam, and moved that the Bill be considered.

The Motion was put and agreed to.

The HON'BLE MR. NOLAN also moved that the Bill be passed.

The HON'BLE MR. MOORE said:—" The main interests affected by this Bill are the interests of those connected with Tea, and I should like quite briefly to give their views about it. Before the Select Committee met, I discussed it with the leading representatives of the Indian Tea Association, and of the Chamber of Commerce to which the Association is affiliated. The purport of the Bill was approved by both bodies, and they had no suggestions to offer for its improvement. Its measure of usefulness will depend upon the rules framed under it, and I trust great care will be taken to confine them to the strict purport of the Bill, and not to go beyond it. In this connexion in Select Committee I proposed the elimination of clause (*j*), section 3 of the Bill, as I considered the wording was so general as to admit of the introduction of the system of way-bills, which would seriously hamper free recruiting by garden sirdars. No restriction would be considered too severe to suppress the various villainies and illegitimate recruiting practised by arkatties, but it is an almost insurmountable difficulty to keep them in check by rules which would not seriously interfere with legitimate free recruiting by garden sirdars, which it is only desired to encourage. On my proposing the elimination of the clause, the legal authority in the Committee showed that there were legal technicalities necessitating its retention, and the mover of the Bill gave me an assurance that there was no intention of imposing the way-bill system. I therefore withdrew my proposal, and I only raise the point now to say it would be satisfactory if that assurance could be repeated here. I have also to ask whether the Government will agree to publish its proposed rules before making them law, to give those interested in Tea an opportunity of expressing an opinion upon them. As both they and the Government have but one object in common, *viz.*, the preservation of labourers from mortality by preventible disease, it seems to me that that course has everything to recommend it, and nothing to the contrary. I would add that, just before coming here to-day, a paper was sent to me by the Tea Association, pointing out that one most essential point was the prevention of overcrowding in railway carriages. The paper consists of two Minutes on the subject by Tea Agency Firms which I will read—

'(1). As regards the supervision and sanitation of free emigrants *en route* to the labour districts, some legislation is undoubtedly wanted, and I think that in this connexion we should call the attention of Government to what I consider to be at present the worst feature of the journey, *viz.*, overcrowding in railways, which in the months of April to June is simply cruel.

'(2). The crowding in the railways is one of the worst features of the coolies' journey, and the railways are allowed to act as if they had absolutely no responsibilities towards emigrants, nor do they seem to be required to make any of the ordinary provisions of accommodation accorded to the third-class passengers either in the trains or at the stations.'

"The point is not specially named in the Bill, but no doubt could and will be brought in under clause (*e*). I have nothing further to say than to express the hope that the Council will pass this Bill, and to thank the Government for their promptitude and decision regarding it from the time it was placed in their hands."

The Hon'ble MR. NOLAN said:—" You, Sir, will have heard, we all heard, with satisfaction the approval of this measure expressed by the hon'ble member who represents among us the views and interests of the mercantile community. Seeing that the immediate consequence of the Bill will be to subject to supervision persons engaged in supplying labour for a great industry, to impose new duties on them, and render them liable to charges, it is most satisfactory to learn, from the hon'ble member's statement, that our proceedings are endorsed by those who would be the first to resist any action of the kind if it were not necessary and beneficial. In regard to what he has said in deprecation of requiring agents to make out way-bills, you, Sir, will be

in a better position than I to give a satisfactory answer as to the future intentions of Government, but I may say that had the requisition of way-bills been contemplated, the Bill would have been differently drafted, so as to indicate that important fact clearly. I doubt if it is really possible to secure the use of way-bills for unregistered emigrants; although, where it is practicable, the system is very useful.

"The support which the measure has received from those most concerned diminishes to some extent the practical importance of an objection taken to it by an experienced journalist that it merely empowers the Lieutenant-Governor to make rules at discretion without clearly defining the character of those rules. It may, perhaps, be convenient to explain, in reply to this observation, that the Bill fixes the responsibility for protecting the health of emigrants on particular persons, it specifies the points on which their conduct shall be subject to control, and assigns a limit to the penalties to be imposed upon them in case of neglect: if it leaves to the Executive the power to specify the actual arrangements to be made on the journey, that is done solely for the sake of convenience. I have a draft of the rules to be issued on the table before me, it was read to the Select Committee, and any portion of it could, had that body so pleased, have been transferred to the Bill. But who would be a gainer by such transfer? Take, for instance, rule 9 of the draft, which runs—

'The agent, or person appointed as aforesaid, must take every care of the emigrants during the journey. He must give them a cooked meal before they start; and if the journey is likely to occupy more than six hours, he must distribute biscuits and sugar in the proportion of two biscuits and one ounce of sugar to each emigrant of and above ten years of age, and one biscuit and half an ounce of sugar to each emigrant under the age of ten years; and if more than eight hours, dry provisions must be supplied, such as *choora*, *sutto*, and the like, in such quantity as may be determined by the Superintendent of Emigration or other authorised officer. It must be seen that the clothing provided is worn by the emigrants whenever the weather renders such a precaution necessary. At the close of every day's march, or of a train journey, the emigrants must be properly housed and provided with a cooked meal and wholesome supply of water for drinking and ablution purposes.'

"That is the regulation now in force under Act I of 1882, and it answers very well as a rule; but who would care to put it on our statute book? In dealing with these details, rules are far more convenient than laws, as they are more easily altered on objection, or when they do not work well. In fact, the procedure of leaving the widest discretion to the Executive is incorporated in the present emigration law, to which our Bill is supplementary, it was adopted in the previous law, and as far as I can ascertain in all the numerous emigration laws and abortive Bills as to emigration which have ever been passed or rejected by the Indian legislature. It also prevails to some extent in regard to arrangements made for the protection of the health of persons who are not emigrants; for instance the hon'ble member opposite, who is Chairman of the Calcutta Municipality, could inform you that here in this town we are all liable to be bound by such sanitary rules as may commend themselves to the body over which he presides.

"The criticism to which I have referred touches a matter of form only, important, no doubt, on general grounds, but having no very special application to the present measure: if we can guard effectually the health of emigrants, it is of no great consequence to them whether this is done by law or by rules having the force of law. But I am aware that the Bill has given rise to a genuine feeling of disappointment among a section of the public by reason of its limited scope: it deals very well, they say, with sanitary matters, but we want very much more than that. In illustration of what I mean, I may, perhaps, quote from a journal published in the recruiting districts: "Though Sir Steuart Bayley correctly describes some, though not all, the evils of that Act, no effort whatsoever has been made in the Bill just introduced to grapple with these evils with a view to their remedy, the only measure contemplated by the Bill being certain sanitary precautions to be observed during the passage of the coolies to the land of slavery. The system of kidnapping which has grown up under Act I of 1882, and to which Sir Steuart Bayley himself in some of his published Resolutions on the administration of the different districts of Bengal made pointed reference, is not even attempted to be touched. The Bill, as at present framed, will not satisfy the public." As far as our Council is concerned, the reply to this objection

is simple and obvious: we have only to state a fact, with which our critics may not be acquainted, to dispose of the matter at once. We have not altered Act I of 1882, because we have not the power to do so: that Act was passed by a superior Legislature, and by that Legislature only can it be amended. We do what we can, as well as we can, and as quickly as we can; for what lies outside our province we can only disclaim responsibility. But in thus indicating the limits of our jurisdiction, I must not be understood to concede that the whole question of emigration and statutory contracts could have been dealt with effectually by any other authority during the present season. The tea industry of Assam has been established by an outlay estimated at fifteen millions sterling: it has settled in that province an immigrant population of 323,000 persons, and 36,000 new recruits leave Bengal every year, attracted solely by the employment which it affords. It has contributed more, perhaps, than any other known factor to the solution of the great problem, how is India to find occupation for a population increasing rapidly? It is thus a most important industry, and, resting as it does on the basis of labour obtained from a great distance, under a peculiar system of statutory contracts, it is an industry of a very special kind. The grounds for action have only recently been established even from the Bengal point of view, and there are others to be consulted—persons who have every right to speak. This is, I submit, a case, if there ever was one, for caution, for deliberation, for the application of the maxim addressed to the ideal English statesman:

'Not quick, or slow to change, but firm,
And in its season bring the law.'

"But, it has been said, we might have expedited matters had we refused to remedy by this Bill immediate and glaring evils until the question could have been dealt with as a whole. As I have read in some journal, we may, by giving an instalment of reform, defer the revision of the whole Act, and thereby do evil; in other words, we should have left the foul wells to do their work a little longer, in order to make the situation intolerable and to bring pressure to bear. This, Mr. President, is, I submit, a suggestion which bears its condemnation stamped in broad characters on its forehead. Even the most cynical controversialist would hardly, on consideration, adopt it with all its consequences: he would scarcely venture to say in plain language to our 36,000 emigrants: "Sicken yourselves again at the contaminated tanks, your illness will help my argument; spread cholera throughout the land, its progress will give point to my declamation; die, and strengthen my case against Act I of 1882." Such a policy can be stated only to be condemned; and its rejection is a sufficient justification for passing the Bill now submitted to the judgment of this Council."

THE HON'BLE THE PRESIDENT said:—"Before I put to the Council the motion which stands on the paper, I wish to add one or two words in reply to my hon'ble friend who first spoke. He desired to know what the intentions of the Government were with regard to the introduction of way-bills under the rules, and, as I understood, he asked for some sort of pledge, as far as it could be given, that they were not to be introduced. The correct answer has been given by the Hon'ble Mr. Nolan in regard to these way-bills, namely, that we cannot introduce them. If I were to speak merely for myself, I might say that the same conditions which required way-bills in the case of coolies who have been registered and are sent up by garden sirdars would equally demand way-bills in the case of coolies who have not been registered and have been sent up by garden sirdars. But the fact of registration makes all the difference. In the one case you have the means of making out a way bill, in the other you have not the means. I mentioned the matter in discussing this question with the member of the Government of India in charge of the case, and we came to the conclusion that way-bills, though admirable in themselves, could not be introduced under this Bill. Therefore, I may say most distinctly and definitely that, as this Bill stands, there is no intention of introducing way-bills. But as to what may be done hereafter I can give no pledge, because, as I have explained, it is my firm hope and trust that this Bill is merely a temporary measure. It is a Bill by means of which we expect to deal with a difficulty which has arisen pending a more complete and better consideration of the question in various aspects which this Council is not in a position to deal with; and whether, when the occasion comes for the amendment of Act I

of 1882, I shall recommend, or whether the Government of India will accept such recommendation as the introduction of way-bills, as in the case of garden sirdars, is a question regarding which it is more than I can give a shadow of a pledge at present. So far on the question of way-bills.

"One other point my hon'ble friend asks above is as to the publication of the rules. It is our object to get the rules into force at the earliest possible moment. Here they are drafted, though not possibly in their final form. I shall ask the Hon'ble Mr. Nolan to submit them informally to-day to those who are chiefly interested, and to ask them to give us their opinions within a week, and I shall delay the publication of them in the meantime, if that will satisfy my hon'ble friend, Mr Moore.

"In regard to the overcrowding of railways, my hon'ble friend on the right (Mr. Nolan) has explained, I think, quite as clearly as I can, what has been done. One of the most serious evils to which objection has been taken is the overcrowding in the railways, and I think it is an objection which is perfectly justified. A Conference was held not very long ago at which the Government in the Sanitary Department and the Managers of the Railways were represented, and certain rules were agreed to. Those rules it is within my power to enforce on the Eastern Bengal Railway, and they will be strictly enforced, and I have no doubt I shall have no difficulty in the matter, and steps have already been taken to introduce them on the East Indian Railway. Although I have no doubt that, under this Bill as drafted, we could pass rules which will have the force of law, and can insist on the management of the East Indian Railway carrying them out, at the same time as they have willingly come forward and agreed to what is required, I shall be unwilling to make any rules on the subject unless I see any real necessity for it. I think I have now answered all the questions which the hon'ble member has asked."

The Motion was put and agreed to.

ADJOURNMENT OF COUNCIL.

THE HON'BLE THE PRESIDENT said:—"There is one word more to say before the Council rises. Of the other Bills which are before the Council, I understand the Select Committee has decided to postpone until the next cold weather the consideration of the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port. They do not propose to go on with it at present. There are two Bills on which the reports of the Select Committee are practically ready—the Muhammadan Burial Board's Bill and the Fisheries Bill. With regard to another Bill—the Police Superannuation Bill—there are certain points with regard to which I have to consult with the Government of India before proceeding; but in respect of the two Bills of which the reports are practically ready—the Burial Board's and the Fisheries Bill—I propose that the Select Committee's reports be circulated to members at the earliest possible date. I myself shall not be here on the 4th of May, which is the earliest date on which the Council could receive the reports and consider them. I do not think it is worth asking the Council to meet merely for the sake of receiving the reports. But I propose that the Council shall meet on the 11th, and then take into consideration the reports which you will have by that time had in your hands for more than a week."

The Council adjourned to Saturday, the 11th May, 1889.

C. H. REILY,

Assistant Secretary to the Govt. of Bengal,
Legislative Department.

CALCUTTA;
The 24th April, 1889.

RULES FOR THE REGULATION OF APPOINTMENTS IN THE SECRETARIAT CLERICAL SERVICE OF THE GOVERNMENT OF BENGAL AND ATTACHED OFFICES.

APPOINTMENT DEPARTMENT.

Dated 16*th March* 1889.

RESOLUTION.

READ—

Two notes by Mr. H. H. Risley, dated the 10th May 1888 and the 31st January 1889, on the question of recruiting clerical appointments in the Bengal Secretariat and other offices at the head-quarters of the Government of Bengal by competitive examination, and of extending that system to similar appointments in district offices.

Read again—

Home Department Notification No. 1817, dated 3rd July 1888, publishing rules for the regulation of appointments in the Secretariat Clerical Service of the Government of India and attached offices.

The question of raising the standard of educational attainments required from candidates for clerical appointments in the Bengal Secretariat, and in other offices at the head-quarters of the Government of Bengal, has been under discussion at intervals since 1883, when the Government of India first invited the Government of Bengal to consider whether the rules laid down for the regulation of appointments in the Secretariat Clerical Service of the Government of India and its attached offices might not be made applicable to similar appointments in Bengal. In June 1883 a Committee of Secretaries and Heads of Departments was appointed by Sir Rivers Thompson to enquire into and report upon the subject. This Committee reported that there appeared to them to be no objection to the adoption of the rules, provided—

I—That the scheme should not affect persons then in the offices who were considered fit for promotion from the lower to the upper division.

II—That appointments in the upper division should comprise all those with a salary of Rs. 100 and upwards, instead of Rs. 200 and upwards, as is the case in the Government of India.

III—That a probationer found incompetent need not be retained for a whole year.

IV—That the names of passed candidates should be placed on one general list, and that declining a particular appointment should not entail the removal of a candidate's name.

2. The Committee's proposal to draw up a scheme modifying the Government of India's system in these particulars was generally approved by Sir Rivers Thompson, who appears however to have been of opinion that the number of vacancies available for competition would be very small, and that in order to avoid disappointing the reasonable expectations of successful candidates, it would be as well to provide that, till the passed candidates were absorbed, there should be no necessity for recurring examinations.

3. Correspondence then commenced with the object of collecting statistics in order to ascertain how many appointments would on an average be available for disposal by examination. In the course of this correspondence certain further objections were raised to the rules for the examination, and for regulating promotion from the lower to the upper division of the offices, and it became evident that the difficulties of adopting the Government of India's system, as it then stood, were in some respects greater than the Committee of 1883 had anticipated. For these reasons, Sir Rivers Thompson was compelled to hold in abeyance the scheme for giving immediate effect to the proposals of that Committee, and the papers relating to the subject were sent to the Salaries Commission for consideration in the expectation that their enquiries would enable them to suggest some means of raising the educational standard demanded of clerks in the offices at head-quarters without either injuring the prospects of existing incumbents or disappointing the expectations of candidates who might become eligible for appointments by examination.

4. The views of the Salaries Commission are contained in paragraphs 294 and 295 of their report. The conclusion which they came to differs little from that arrived at by Sir Rivers Thompson three years before. Owing, however, to the many important administrative proposals which were made in their report, the Resolution reviewing it did not appear until the 1st April 1887, and their recommendations regarding the extension of the system of competitive examination were even then not finally disposed of, but were transferred for consideration to the Judicial Department, which was then in correspondence regarding it with the Government of India. The matter was first brought to Sir Steuart Bayley's notice in connection with the larger question of enquiring into, and if possible revising, the working of the Bengal Secretariat, and in referring it to Mr. Risley, the officer appointed in the Judicial Department's Resolution of 17th April 1888, to conduct that enquiry he was instructed to consider the possibility of framing a scheme which should not be open to the objections taken to the system of the Government of India as it stood in 1883. In Mr. Risley's note of the 10th May 1888 the attempt is made to devise a method of filling appointments in the Secretariat by selection based upon the qualifications of the candidates as ascertained and recorded in the examinations held by the Calcutta University. While this proposal was still under the Lieutenant-Governor's consideration, the Government of India published a revised code of rules for examination, and Mr. Risley was therefore directed to examine these and to enquire how far they were applicable to clerical appointments under the Government of Bengal. It appears from Mr. Risley's second note, dated the 31st January 1889, that the rules for regulating appointments in the Secretariats of the Government of India as now amended completely dispose of the objections which have been raised to the extension of the scheme to the Bengal Secretariat and similar offices under the Government of Bengal. The following are the chief points which have to be considered.

5. The principle of breaking up the establishment of a large office into two divisions, and recruiting these divisions separately with reference to the nature of the work with which they are concerned, has been accepted in English public departments for some years past. Although no similar division has as yet been formally introduced into the Bengal Secretariat, the actual practice in dealing with vacancies in the higher grades of the office has all along been based upon the recognition of the fact that in an office recruited mainly by the admission of apprentices a certain proportion of the clerks will only be fit for routine work, and cannot be employed on the more difficult operations connected with the disposal of correspondence. It has at no time been admitted that subordinate appointments in the Secretariat form a sort of service the members of which can claim that vacancies in the upper grades shall be filled exclusively by promotion from the lower grades, and that outsiders shall only be appointed under very exceptional circumstances. So far from this being the case, the rules which have been in force for some years past in the Judicial, Political and Appointment Departments of the Secretariat restrict the promotion of clerks employed on routine duties within very narrow limits, and give a large and indefinite discretion as regards the appointment of outsiders. After carefully considering the effect of the rules promulgated with the Home Department notification already referred to, the Lieutenant-Governor is satisfied that their application to the Secretariat and other offices at head-quarters will not injuriously affect the prospects of the clerks now serving in those offices who were selected under the old system of filling vacancies by the promotion of apprentices or by appointments made without reference to the educational qualifications of the candidates. Clerks now serving in the lower division who can give satisfactory evidence that they possess educational qualifications equivalent to the First Arts standard of one of the Indian Universities will be held eligible for promotion to the upper division, irrespective of the rule restricting the occasions on which such promotions can be made to every alternate vacancy. The substitution of distinct rules for the varying and uncertain practice which now regulates promotion in these offices may further be expected to attract to the clerical service of Government a more highly educated class of men than is secured under the present system.

6. The Lieutenant-Governor agrees with the Committee of 1883 in thinking that, in the case of the Bengal Secretariat, the upper division should comprise

all appointments the pay (or in the case of appointments carrying progressive pay, the minimum pay) of which is Rs. 100 and upwards. It is true that a different line of demarcation is adopted in offices under the Government of India, but it does not appear that this need form a conclusive objection to the Government of Bengal joining in the system of examination now carried on under the orders of the Home Department. It is clearly impossible for the Bengal Government to adopt the line of demarcation recognised by the Government of India without unduly reducing the number of appointments in the upper division, and accepting a lower standard of qualification for work which ought to be reserved for the more highly educated clerks of the upper division. Even if the Government of India were prepared to modify their line of division so as to make it correspond with that adopted by the Government of Bengal, the comparative attractions of the two services would not be equalised thereby for the pay and prospects of clerks employed in the offices under the Government of India are better than those of clerks serving under the Government of Bengal. On the other hand, it seems possible that the knowledge that they will not be required to serve outside their own Province may in some cases induce natives of Bengal to prefer an appointment on smaller pay in Calcutta to one on larger pay with the liability to spend a portion of the year in Simla. In any case it is clear that nothing would be gained by holding a separate examination for Bengal appointments, while that arrangement would certainly involve an amount of expenditure disproportionate to the object in view.

7. It has already been stated that the Government of India's rules as now amended render it possible to do ample justice to clerks already serving in the lower division. The question whether in any particular office it is possible in practice to fill every alternate vacancy by promotion from the lower division is one which will have to be carefully considered in each case with reference to the educational qualifications and proved ability of the clerks concerned. These considerations have hitherto been invariably taken into account in deciding whether a particular vacancy was to be filled by promotion within the office or by the appointment of an outsider, and it does not follow that the introduction of the new rules will make it possible to dispense with precautions which are peculiarly necessary where the lower division has been recruited mainly by the admission of apprentices. In the case of the Secretariat it seems to the Lieutenant-Governor that no clerk should be promoted from the lower to the upper division unless he is fully qualified to deal with the higher branches of correspondence work. To this latter proviso an exception may be made in favour of clerks working in the Reference Branch, as it is desirable to hold out special encouragement to proficiency in this important branch of office business.

8. As regards offices other than the Secretariat, it seems to the Lieutenant-Governor that the amended rules equally meet the objections raised by the Board in their letter No. 782A, dated 4th September 1884, to the extension of the Government of India's system to their office. The present system, in fact, differs in many material particulars from the scheme to which the Board then took exception, and leaves them in some respects a wider discretion as regards the appointment of outsiders than they proposed in that letter to reserve to themselves. A point to be specially noticed is that the rules, as they now stand, render it possible to maintain the existing system of apprentices on a somewhat reduced scale, and thus avoid the main difficulty on which the Board laid stress. The allotment of every third vacancy to registered apprentices would make it easy to absorb the existing apprentices within a reasonable time, while by rendering their prospects more certain it would probably induce men of higher qualifications to enter as apprentices. It may be added that the rules also allow heads of offices to appoint, otherwise than by competition, domiciled European and Eurasian clerks—an element which should not be allowed to disappear entirely from the public offices. The proviso requiring a minimum qualification of the Entrance Examination for the lower and the First Arts for the upper division ought not to exclude these men, while the knowledge that a substantial proportion of appointments are withdrawn from competition and reserved for distribution among persons who can show a certain minimum educational qualification may probably encourage them to pay more attention to the education of their sons than they have hitherto done. The rules might also be used to bring

in experts or specialists, such as are referred to in the last paragraph of the Salaries Commission's Report, and to secure that a certain proportion of appointments should fall to Mahomedans.

9. For these and other reasons, which need not be discussed here, Mr. Risley recommends that the system of modified competition as set forth in the Government of India's rules be extended to the offices of Commissioners, Magistrate-Collectors, and District Judges throughout Bengal, certain subjects being added to the examination in order to meet the requirements of these offices. Sir Steuart Bayley is not at present prepared to make so large a change in the arrangements of Collectors' and Judges' offices as this proposal would involve, but he sees no reason why clerical appointments in the offices of Divisional Commissioners in Bengal Proper should not in future be dealt with in accordance with the rules. In these, and perhaps in some of the other offices enumerated, it may be found necessary to lower the line of demarcation between the uper and lower divisions from Rs. 100 to Rs. 80, or perhaps less, so as to secure a convenient proportion of appointments in each division, and some provision may perhaps have to be made for testing proficiency in the vernacular. These points will be separately considered hereafter.

10. The rules which have been framed for the purpose of giving effect to the changes explained above are annexed to this Resolution.* It is proposed to ask the Government of India to permit candidates for clerical appointments under the Government of Bengal to present themselves at the annual examination now held under the orders of the Home Department of the Government of India. The rules published with the Home Department notification of the 3rd July 1888 have therefore been adopted with such modifications only as were necessary in order to adapt them to the administrative arrangements of the Government of Bengal. The offices to which the rules will apply are the following:—

Bengal Secretariat.
Board of Revenue.
Commissioners of Divisions in Bengal Proper.
Inspector-General of Jails
Inspector-General of Police.
Director of Public Instruction
Director of Land Records and Agriculture.
Inspector-General of Registration.
Inspector-General of Civil Hospitals.
Sanitary Commissioner.
Superintending Engineer.
Inspector of Local Works.
Superintendent of Emigration and Protector of Emigrants.
Conservator of Forests.
Collector of Customs.
Superintendent of Stamps and Stationery.
Collector of Calcutta.
Magistrate-Collector of 24-Pergunnahs.
Magistrate of Howrah.

11. The heads of these offices should now report the number of appointments they have in each division, the number of vacancies now existing, and the number likely to be available for competition in January 1890. As regards existing vacancies, it may be a question whether an attempt should not be made to provide employment for qualified candidates whose names are still standing on the list, and the Government of India will be asked for information as to the results of the recent examination, and the number of candidates remaining over from previous examinations who may be willing to take appointments under the Government of Bengal.

* Vide Part I of this Gazette.

By order of the Lieutenant-Governor of Bengal,

J. WARE EDGAR,

Chief Secretary to the Government of Bengal.

SCHEME FOR RECRUITING THE SUBORDINATE EXECUTIVE SERVICE.

APPOINTMENT DEPARTMENT.

Calcutta, the 24th April 1889.

RESOLUTION.

READ—

Resolution on the appointment of candidates to the Subordinate Executive Service, No. 702, dated 24th February 1868.

Resolution on the same subject, No. 2288, dated 2nd June 1868.

Notification, dated the 26th September 1871, publishing rules for the examination of candidates for the Subordinate Executive Service, the Police and the Opium Departments.

Notification, dated the 3rd October 1871, amending the above rules.

Resolution, dated 20th March 1872, creating executive establishments for sub-divisions.

Notification of 9th July 1872, publishing rules for the examination of candidates for civil appointments.

Notification, dated the 23rd July 1872, regarding the appointment of candidates to the Subordinate Executive Service.

Letter No. 858, dated 5th August 1872, explaining the rules relating to the Civil Service classes and the examination of candidates for civil appointments.

Resolution, dated 15th April 1873, publishing lists of candidates passed at the Native Civil Service examination.

Resolution, dated 22nd April 1873, on the subject of sub-divisional executive establishments.

Letter to Director of Public Instruction, dated 10th October 1873, forwarding revised rules for the Native Civil Service examinations of 1875.

Resolution of 22nd June 1875, reviewing the results of the Native Civil Service examination, of that year.

Minute by Sir Richard Temple, dated 25th September 1875, on competitive examination for admission of candidates to the Native Civil Service of Bengal.

Notification, dated 23rd September 1875, publishing revised rules for Native Civil Service examination of 1876.

Resolution, dated 17th June 1876, reviewing the results of the Native Civil Service examination of that year.

Notification, dated 21st November 1876, of a competitive examination to be held in March 1877.

Resolution, dated 14th December 1876, exempting certain officers from the Native Civil Service examination.

Memorandum No 5176A, dated 3rd November 1877, ordering the discontinuance of the Native Civil Service examination.

Resolution, dated 23rd February 1883, on the system of recruiting the Subordinate Executive Service.

Resolution, dated 30th April 1883, modifying the Resolution of 23rd February, and publishing the subjects of examination.

Resolution, dated 20th June 1883, modifying the Resolution of 23rd February 1883.

Resolution, dated 6th September 1883, modifying the Resolution of 23rd February 1883.

Notification, dated 18th December 1883, regarding the examination for the Subordinate Executive Service.

Resolution, dated 17th March 1884, reviewing the results of the examination held in that year.

Resolution, dated 21st April 1884, modifying the Resolution of 23rd February 1883.

Resolution, dated 3rd February 1885, postponing the complete introduction of the system of appointment by competition to the Subordinate Executive Service.

Resolution, dated 23rd March 1885, reviewing the results of the examination held in that year.

Resolution, dated 12th June 1885, regarding examination for the Subordinate Executive Service.

Resolution, dated 16th March 1886, reviewing the results of the examination held in that year.

Resolution, dated 19th March 1887, reviewing the results of the examination held in that year.

It is now nearly twenty-three years since the attention of the Government of Bengal was first drawn to the anomaly that while Covenanted Civilians were required before entering on their duties to pass a number of examinations expressly designed to fit them for their work, Deputy Magistrates and Deputy

Collectors were permitted to commence their actual service without undergoing any test of their intellectual qualifications for employment under Government. During that period the question of the best means of recruiting the Subordinate Executive Service has been constantly under consideration, and the long series of orders quoted in the preamble to this Resolution is of itself sufficient to show that serious difficulties have been encountered in dealing with it. These difficulties seem to have arisen rather from the nature of the subject than from any difference of opinion as to the main object to be kept in view. The general policy followed by successive Lieutenant-Governors has been on the whole the same, although frequent changes have been made in the system by which that policy was to be carried into effect. These changes have produced inconvenient and embarrassing results. Claims created or recognized by one method of selecting candidates were ignored or imperfectly satisfied when another method was introduced, and each system in turn has involved the Government in a number of implied pledges which it is now practically impossible to fulfil. It has become necessary therefore to examine the whole subject in detail, to review the history of its past administration, and to endeavour to devise some means of reconciling an indefinitely large number of conflicting claims to employment in the Subordinate Executive Service with the hard fact that only a limited number of appointments can possibly fall vacant every year, and that the *cadre* of the service cannot be materially increased.

2. In 1868 Sir William Grey resolved as an experimental measure to appoint candidates to the Subordinate Executive Service on a combined plan of nomination and competition. Three nominations were made by the Lieutenant-Governor for every appointment that was expected to be available, and the final selection from among the nominees was determined by competitive examination. The object of the examination was to test the general education and the intelligence of the candidates, and also their knowledge of English and of one of the chief vernacular languages of these provinces. All candidates were therefore required to write an English essay and to answer questions on general subjects; natives of India had also to write a vernacular essay and Europeans to translate papers from and into one of the vernacular languages. The first examination was held on the 26th of May 1868. Sixty-nine persons were allowed to appear, and twelve European and eighteen native candidates were selected as eligible for appointments in the Subordinate Executive Service. Nearly three years, however, elapsed before all of these gentlemen had been actually provided with appointments, and for this reason no more examinations were held during Sir William Grey's tenure of office.

3. In 1871 a fresh set of rules, providing for the examination of candidates for the Subordinate Executive Service in law, surveying, engineering, and the vernacular languages, was drawn up under Sir George Campbell's orders, and published in the *Calcutta Gazette*. The examination was open only to persons employed in one of the Civil Departments of the Government service, but the term of employment necessary to qualify for admission varied according to the University attainments of the candidate, so that a candidate who had passed only the Entrance examination must have been five years in Government service, while a graduate in Arts, Law or Engineering was admissible if he had held a permanent appointment for one year. The examination was not competitive. Every candidate who passed in the first and second classes received a certificate, stating that he had passed in certain subjects and that he was qualified for an appointment in the Subordinate Executive Service. The first edition of the rules (notification of 26th September 1871) contained a note to the effect that this certificate would give no claim to an appointment. It was stated, however, in the resolution of 20th March 1872, creating Sub-Deputies and canoongoes, that capable young men admitted into these lower grades of the Native Civil Service "would in course of time become fit for Deputy Magistracies and higher appointments, which appointments will ordinarily be made from among those who have done well as Sub-Deputies." On the 23rd June 1872 it was notified "for the encouragement of candidates for the Native Civil Service" that arrangements had been made for employing in the public service all the candidates who passed the examination of February 1872, and it was added that qualified candidates accepting appointments of less than Rs. 100 per mensem would be

eligible for promotion to the higher grades on showing their practical efficiency by good service. This assurance was repeated in the Resolution of 15th April 1873, in which qualified candidates were "recommended to accept lower grade appointments and to try to work themselves up." Finally, in the revised rules drawn up in 1873 and intended to come into force after the examination of 1874, it was laid down that "all appointments in the Subordinate Executive Service, and all posts of Rs. 50 monthly salary and upwards in the sub-divisional establishments, both in Regulation and Non-Regulation Provinces, will ordinarily be reserved for persons who pass the Native Civil Service examination."

4. The results of holding pass examinations open to all comers soon became apparent. The examinations of 1872, 1873 and 1874 had rendered 361 men eligible for appointments. Just at that time a lower branch of the Subordinate Executive Service was created in order to provide a general executive agency for sub-divisions, and appointments in this branch were made available for almost all those who had passed the examinations of 1872 and 1873. At the same time the operations undertaken for the relief of the famine of 1874 rendered it possible to give temporary employment to a number of the passed candidates of that year. But in spite of this very exceptional demand for subordinate executive officials, the number of candidates still unprovided with appointments was even then greatly in excess of the ordinary requirements of the service. In 1875 the standard of examination was raised, and the number of candidates who passed on that occasion was thereby greatly reduced. But there remained, as is stated in the Resolution of 22nd June 1875, no fewer than 80 passed candidates qualified for the higher grade and 120 qualified for the lower grade, for whom there was little prospect of appointments becoming available. It was therefore decided that no general examination would be held until further notice.

5. In his minute of the 25th September 1875, Sir Richard Temple reviewed the working of the system introduced by his predecessor. He pointed out that to pass all the candidates who attained a given standard must necessarily bring on the hands of Government a larger number of passed candidates than could conveniently be provided for, and that in fact about 155 candidates then remained unemployed. He directed, therefore, that instead of all candidates being passed who came up to a certain standard, the examination should in future be competitive, and that a fixed number of places in the higher and the lower classes of appointments should be allotted to the candidates who stood highest at the examination. It was further laid down that no candidate would be passed for the higher grade of appointments unless he obtained two-thirds, or for the lower grade unless he obtained one-half of the total number of marks. This change, while successfully preventing any large increase in the number of passed candidates from taking place in the future, did nothing to improve the prospects of the men who had passed in the first three years of Sir George Campbell's term of office.

6. Sir Ashley Eden introduced a complete change of policy. He held that competitive examination had proved a failure as a method of recruiting the Subordinate Executive Service, and he substituted for it a system of nomination, in which regard was had to the social position, moral character and educational attainments of candidates for appointments. The names of eligible candidates were entered in two registers—one for Deputy Magistrates, and another for Sub-Deputies; and when vacancies occurred, a selection was made from among the names on these lists. This mode of nomination was adhered to throughout Sir Ashley Eden's time.

7. In 1883, when the subject first came under Sir Rivers Thompson's consideration, both of the lists in question contained a large number of names, some of which had been on the registers for many years. In many cases, however, the information regarding the qualifications of the candidates was not full enough to enable a satisfactory selection to be made, and it was mainly for this reason that Sir Rivers Thompson determined to gradually introduce a system under which appointments to the Subordinate Executive Service should again be thrown open to competition. In order to satisfy the claims of those nominees who were still waiting their turn for appointments, it was arranged that all vacancies during 1883 were to be filled by candidates

borne on the Government lists. In 1884, nominees who had not succeeded in getting appointments were, together with those Sub-Deputy Collectors who had passed the Native Civil Service examination or the Entrance examination of the Calcutta University, permitted to compete for the appointments that fell vacant in that year, and were relieved from the restriction* excluding persons who are more than twenty-five years of age. In 1885 eight appointments were given by nomination and twelve by examination; in 1886 ten by examination, while in 1887 nine men were nominated and five admitted by examination.

8. Notwithstanding the attempts thus made by successive Lieutenant-Governors to organise the recruitment of the Subordinate Executive Service on a permanent footing, Sir Steuart Bayley is compelled to express a doubt whether the question has yet been finally disposed of. Several radical changes of system and various temporary expedients have been tried and found wanting. Each change has given rise to a fresh set of claims, and has thereby enhanced the difficulty of satisfying the claims already on record. The registers of candidates for appointments in both branches of the Subordinate Executive Service are overloaded with names; some few promises of appointments have been given; many vague expectations of obtaining appointments have been formed and to some extent recognised; and distinct conditional pledges of promotion for good service have been only imperfectly fulfilled. These causes, operating concurrently during a period of twelve years, have produced a state of such extreme complication and confusion that the Lieutenant-Governor is satisfied of the necessity of introducing some comprehensive scheme which shall take account of the essential and permanent requirements of these provinces, and shall provide for giving play to more than one method of selection.

9. In any scheme that is to be final, the principle of competition must occupy a prominent, perhaps the most prominent, place. But competition alone will not meet all our wants. We have to consider the diverse character of the population with which we are dealing, and to guard against a single race or class obtaining a virtual monopoly of the service by which a large proportion of the every-day work of administration is done. At the present time, and probably for many years to come, the immediate effect of recruiting the Subordinate Executive Service on an exclusively competitive basis would be to debar Mahomedans, natives of Behar, and natives of Orissa from any reasonable chance of obtaining appointments. Not only would this be unfair in itself and contrary to established policy, but it would tend to encourage feelings of race jealousy and antagonism, which have already begun to show themselves, and which might at any time give rise to serious difficulties. It is as true now as it was when Sir Richard Temple wrote his Minute of the 22nd September 1875, that "there may be many good reasons, besides the winning of a place in an examination, for appointing native gentlemen to the higher grades in the public service." Social or representative position, family connexions, distinguished University attainments, meritorious service in other branches of the administration—these are some of the qualifications which may give a claim to appointments by nomination. There remains also a third class of claimants comprising those Sub-Deputy Collectors who passed the Native Civil Service Examination in the years 1872-75, and who have earned by distinguished service in the lower branch the fulfilment of the promise of promotion to the upper which was given by Sir George Campbell.

10. Having thus defined generally the main classes of claims which have to be taken account of, it is now necessary to examine the question more minutely, and to classify the claims on record with reference to their comparative validity and the reasonable prospects of being able to satisfy them. Taking the latter point first, it should be explained that the Subordinate Executive Service is divided into two branches—an upper and a lower. The former is at present composed of 242 Deputy Collectors, 35 probationary or officiating Deputy Collectors, and 29 Special Deputy Collectors. In the latter there are 94 Sub-Deputy Collectors, 14 special and temporary officers, 8 tehsildars, and 67 canoongoes. The pay of a Deputy Collector of the lowest grade is Rs. 250 monthly. The pay of probationary or officiating Deputy Collectors is Rs. 200 monthly: that of Special Deputy Collectors varies from

Rs. 200 to Rs. 400. The pay of the highest grade Sub-Deputy Collector is Rs. 200: that of the lowest Rs. 100. The pay of tehsildars is Rs. 200, and the pay of first-grade canoongoes Rs. 75 monthly. The number of officiating or probationary officers varies from time to time. It is thus obtained. A table is periodically compiled showing the number of Deputy Collectors absent on leave, deputation, &c. From the total of this the number of officers likely to rejoin or revert at an early date, and the number actually officiating, are subtracted, and the balance is taken as the number of officiating vacancies to which selected candidates may be appointed on probation with a reasonable probability that none will be thrown out unless by their own fault. They are then required to pass the departmental standard examinations, after which they become eligible for confirmation when a temporary vacancy occurs in the seventh grade of Deputy Collectors. Special Deputy Collectors are appointed for specific temporary work, and so long as they are employed on such work, are not brought on the regular list without being seconded. As a rule, Special Deputy Collectors are chosen from among the grades of Sub-Deputy Collectors, so that in the event of a man's special work coming to an end before he obtains an appointment in the regular line, he may have something to fall back upon. Although the work done by Special Deputy Collectors is in theory of a temporary character, the experience of the last few years seems to show that there is enough of it to furnish continuous employment to a certain number of officers; while the development of special branches of administration, such as excise, income-tax, and irrigation, may tend to increase that number. The question therefore arises whether the *cadre* of Deputy Collectors should not be increased so as to admit of the inclusion in the regular line of those Special Deputy Collectors whose duties, though in theory terminable, are for various reasons practically permanent. In order to determine this point, careful enquiries will have to be made by the administrative departments concerned in each case. Some excise appointments may probably be treated as permanent, and it is possible that certain of the Special Deputy Collectors employed in making partitions may be incorporated in the regular *cadre*. This question will be considered in the Revenue and Financial Departments.

11. Such being the constitution of the Subordinate Executive Service, and the possibility of adding to the number of available appointments being limited, partly by the restriction of a definite *cadre*, and partly by occasional administrative requirements, the next point to consider is what claims to appointments in this service are now on record, and what prospects may reasonably be looked forward to of satisfying them in whole or in part. Commencing with men already in the lower branch of the service, there are among the grades of Sub-Deputy Collectors no less than 42 men who passed the higher grade of the Native Civil Service examination, and are entitled to the benefit of the pledge given by Sir George Campbell that such officers, if they did good service as Sub-Deputies, would be promoted to the superior branch of the service. The list of candidates for appointment by nomination to the upper branch of the service shows 84 names, many of which have been on record for several years. In dealing with numbers so utterly out of proportion to the possible vacancies that may be anticipated, it is obvious that some very stringent and searching method of selection has to be resorted to. Unless the lists can be very materially reduced, the claims of the next generation of candidates will be brought forward before those of the present generation have been disposed of. Following this principle, the Lieutenant-Governor has after the most careful consideration selected from among the list of Sub-Deputy Collectors who passed the Native Civil Service examination, twenty-two officers whose claims to promotion to the superior branch have been placed on record in the Secretariat, and will be dealt with in order; those who are special Deputy Collectors being promoted as occasion may offer to be probationary or officiating Deputy Collectors, and being seconded by Sub-Deputy Collectors whose claims have similarly been recognised.

12. The list of candidates for appointment by nomination presents far more serious difficulties. The practice in dealing with applications seems to have varied from time to time, and no attempt appears to have been made to restrict the number of names registered with reference to the number of appointments likely to be available within a reasonable time. Careful scrutiny

of the papers of each individual case has, however, enabled the Lieutenant-Governor to distinguish two classes of candidates—those to whom specific promises of appointments have been made by his predecessors, and those who, though holding no specific promises, have nevertheless indisputable claims upon Government in virtue of University distinctions, of good work done in other departments, of their social or representative position, and of important services rendered by members of their family to the Government, and have been given to understand that these claims have in some measure been recognised. From among those there have been selected for appointment this year, should vacancies permit, the names of six gentlemen, three of whom appear to have received assurances of a more or less definite character approaching to specific promises, while the other three have independent claims of a high order to the special consideration of Government.

13. The number of vacancies that may be looked for in the Subordinate Executive Service during the year 1889 is still uncertain. The average number of vacancies arising from ordinary causes may be taken at eight, and it is probable that four appointments will be added to the regular *cadre* of Deputy Collectors in order to provide for the increased administrative requirements of the Excise Department. There will thus be twelve vacancies available in the course of the year. In the event of these expectations being realised, the Lieutenant-Governor proposes to allot six appointments, or every other vacancy that occurs, to those Special Deputy Collectors whose names have been recorded in the manner described in paragraph 11 above as eligible for promotion. These officers will not, however, be withdrawn from the special duties on which they are now employed, but will be seconded by those Sub-Deputy Collectors who have similar claims to be raised to the higher branch of the service. The remaining six appointments will be given in the form of every alternate vacancy to the six gentlemen referred to in the preceding paragraph. Should the number of appointments actually falling vacant be less or greater than the number assumed as probable in the present estimate, they will be divided in the ratio stated above, that is to say, one-half will be given to the Special Deputy Collectors and Sub-Deputy Collectors already selected for promotion, and one-half to those candidates for appointment by nomination who are found to have the strongest claims. No competitive examination will take place during the current year.

14. Early in 1890 an examination will be held for admission to the upper branch of the Subordinate Executive Service. This examination with some modifications to be published hereafter in the *Calcutta Gazette*, will be of a general character resembling that set forth in the Resolution of the 22nd November 1887, prescribing revised rules for the Statutory Civil Service Examination. But it may be stated here that candidates will be required to have passed the B. A. examination of the Calcutta University, or to produce satisfactory evidence from competent authority of having received a good education up to an analogous standard. Their age must not exceed 25 years. They will have to give satisfactory proof of physical fitness, good moral character, and social respectability, and they will also have to produce a certificate, signed by a district officer, of their ability to ride well enough for the requirements of ordinary administrative work. Candidates for appointments by nomination whose names are entered on the lists kept up in the Secretariat will also be permitted to compete at the examination of 1890 provided that they have not attained the age of 30. With reference to the results of this examination, nine candidates will be declared to be qualified for appointment to the Subordinate Executive Service, and will at once be employed as probationers, on a subsistence allowance of Rs. 50 a month, in the manner described in the Government Resolution of the 19th March 1887. Six of the candidates thus selected will be those who obtain most marks in the examination, and three will be chosen from among those gentlemen who, having adequate claims to appointments by nomination, and having complied with the rules of the examination regarding educational qualifications, character, ability to ride, &c., have also succeeded in obtaining not less than one-third of the total marks. At the same time three Special Deputy Collectors or Sub-Deputy Collectors, as the case may be, from among those already selected, will be notified as eligible for promotion to the upper branch of the service. All twelve names will be published

in a combined list, and according to the position assigned to them by Government on that list, the candidates will be appointed to fill vacancies in the Subordinate Executive Service as they occur.

15. In the examination of 1891, as in that of 1890, gentlemen whose names are on record in the Secretariat as candidates for appointment by nomination will again be admitted to compete if they are under thirty, in addition to gentlemen possessing the general qualifications specified in the preceding paragraph. The number of appointments to be allotted after this examination will be in a great measure dependent upon the number of vacancies that may have occurred during the previous year. If the twelve candidates pronounced eligible in 1890 have been provided with appointments within the year, the list published in 1891 will comprise a number of names corresponding to the number of vacancies which may be expected during the year. If, on the other hand, some of the candidates selected in 1890 are still undisposed of, the list of 1891 will be reduced in proportion, and those whose names were published in the previous year will be held to have a superior claim to the first vacancies that occur. But whatever number of appointments may be available will be divided as far as possible in the ratio stated in the last paragraph between candidates selected by competition, candidates selected by nomination, and Sub-Deputy Collectors who are deemed fit for promotion. The privilege, conceded to candidates already on the Secretariat lists, of admission to the examination without reference to the ordinary limit of age will only be recognised at the examinations of 1890 and 1891. The examinations of 1892 and of subsequent years will be open only to candidates under 25 years of age, whether included in the Secretariat lists or not. In other respects the conditions laid down in the last paragraph will be adhered to in the case of all candidates.

16. The state of the case as regards the existing candidates for appointment to the lower branch of the Subordinate Executive Service is closely analogous to the circumstances affecting the upper branch. The list kept up in the Secretariat contains no less than 117 names. Some few of these gentlemen have received from former Lieutenant-Governors an intimation of the desire or intention to confer appointments upon them in the event of the state of the list rendering it possible to do so, and in some of these cases the expectations held out to the candidate may have been sufficiently distinct to warrant them in believing that a definite promise had been made. Of the rest a certain number, to whom no such communication appears to have been made, have nevertheless claims which the Government would be willing to recognise so far as the number of vacancies may permit. There are also among the officers now employed as canoongoes five gentlemen who passed in the first two classes at the Native Civil Service examination in Sir G. Campbell's time, and who are reported by the Commissioners under whom they serve to merit promotion to the post of Sub-Deputy Collector. As a matter of general policy, Sir S. Bayley thinks it doubtful whether canoongoes should as a rule be made eligible for promotion to the lower branch of the Subordinate Executive Service. Their duties and their official status are such as to place them rather in the position of ministerial officers, and this seems to be the place which they occupy in public estimation. As soon as existing anomalies have been got rid of, and the various grades of Subordinate Executive agency in Bengal reduced to some systematic order, the Lieutenant-Governor proposes to prohibit the promotion of canoongoes to be Sub-Deputy Collectors, and to arrange for the recruitment of the canoongoe service in connexion with the examination recently instituted for certain clerical appointments. Meanwhile it is necessary to consider the claims of the five canoongoes referred to above, who will be held to be entitled to appointment to the grade of Sub-Deputy Collector in the manner explained below. There are also some canoongoes who passed the Civil Service Examination instituted by Sir G. Campbell in the lowest division, or who have not passed any examination, but who have been strongly recommended for promotion by Commissioners, and some of whom have actually acted as Sub-Deputy Collectors. The Lieutenant-Governor will make an effort to promote the most deserving of these if practicable.

17. The average annual number of vacancies in the lower branch of the Subordinate Executive Service cannot be estimated at more than ten, while it has

already been stated that the names of 117 candidates are entered on the Secretariat list. Even if every vacancy were allotted to these gentlemen, and no fresh claims were admitted, it would take about twelve years to exhaust the list, and the large majority of candidates would have passed the age of 25 many years before their turn to receive appointments could arrive. The prospect of being able to give appointments to any substantial proportion of these gentlemen would again be rendered more remote by the necessity of recognising the claims of those canoongoes who passed the Native Civil Service examination, and have since done good service and been favourably reported on. This being so, it is clear that the applications now on record must be as carefully scrutinised as those for appointment as Deputy Magistrates, and that a system of strict selection must be resorted to with the object of clearing the list.

18. It appears to the Lieutenant-Governor that the question of recruiting Sub-Deputy Collectors admits of being treated on virtually the same lines as the question of recruiting Deputy Collectors, and that a mixed system of competition and nomination will be found to meet the requirements of this, as well as of the higher, service. During the current year no examination will be held, and the appointments which may fall vacant will be equally divided between the five canoongoes deemed eligible for promotion and those candidates whose names are recorded in the Secretariat as possessing the strongest claims to consideration. Should there be more than ten vacancies during the year, they will be filled up from among candidates of the last-mentioned class. In 1890 the registered candidates for appointment as Sub-Deputy Collectors will be permitted to appear at an examination, the conditions of which will be defined in a notification in the *Calcutta Gazette*, but which will be of the same general character as that for Deputy Collectors, though the standard will be lower. Registered candidates for appointments as Deputy Magistrates, who intimate before the examination their desire to be appointed as Sub-Deputy Collectors, will also be allowed to compete. From among these two classes (viz., Registered candidates for Sub-Deputyships only, and Registered candidates for Deputyships who are willing to take Sub-Deputyships), the ten candidates who obtain most marks will be declared eligible for appointment as Sub-Deputy Collectors, and will be appointed to fill vacancies in the grades of Sub-Deputy Collectors as they occur. Should there be more than ten vacancies during the year, the Lieutenant-Governor may be able to appoint some of the deserving canoongoes mentioned in the last sentence of paragraph 16. Pending their appointment, those of them who are not already in Government service will be employed as probationers on a subsistence allowance of Rs. 30 a month. A similar examination will be held in 1891, and at both examinations candidates whose names are entered on the Secretariat list will be permitted to appear provided they have not attained the age of thirty years. After 1891 there will be an examination held annually open to all persons who have passed the F. A. Examination, or can produce proof of analogous education. This examination will be conducted under rules to be notified in the Gazette, and the vacancies that may occur in the Sub-Deputy service will be divided equally between the candidates who obtain most marks in the examination and those nominees who obtain not less than one-third of the total marks. The names will be published in a combined list, and, according to the position assigned to them by Government on that list, the candidates will be appointed to fill vacancies as they occur. If the candidates whose names are published are not provided with appointments within the year, the list of the following year will be reduced in proportion.

19. The scheme set forth above commends itself to Sir Steuart Bayley as one which offers a practicable solution of a question of great difficulty and complication, and which promises to provide an adequate and final method of recruiting the Subordinate Executive Service in future. For the reasons already explained, it is obviously impossible to satisfy more than a small proportion of the expectations of appointment by nomination in one or other branch of the service of those who have been registered as candidates. It being, however, impossible to add to the number of appointments available for distribution, the only alternative is to reduce the number of candidates by strict scrutiny of their fitness and by giving a large scope to the principle of competition. The time has not come when open competition can be

accepted as the sole method of recruiting the Subordinate Executive Service. Some parts of Bengal and some classes of the population are as yet too backward educationally to be fitted for this larger reform, and, in consideration for their peculiar circumstances, the Lieutenant-Governor thinks that the power to make appointments by selection should still be retained. But while reserving this discretion, he desires to exercise it on as small a scale as possible, and to prepare the way for a further adoption of competition by allotting one-half of the available appointments in either branch of the service in accordance with the results of the examination. At the same time an attempt has been made to improve the prospects of those candidates for nominations whose applications have already been recorded by admitting them to compete on exceptionally favourable terms.

ORDER.—Ordered that copies of this Resolution be forwarded to the Financial and Revenue Departments, with reference to paragraph 10.

Ordered also that the Resolution be published in the Supplement to the *Calcutta Gazette.*

By order of the Leutenant-Governor of Bengal,

J. WARE EDGAR,

Chief Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 27th April 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Divn.			
1	Burdwan April 27, '89	Nil	Weather—hot and dry. No crops, except a little *boro dhan*, which is good. Common rice at Burdwan 15¼ seers, Culna 13 seers, Cutwa 14⅝ seers, and Raniganj 14 seers per rupee. Prices of all food-grains rising. Rain wanted.
2	Bankoora " 27, '89	Nil	Weather—hot and occasionally cloudy. Manuring and ploughing of fields for the next crop going on, but rain is wanted for this as well as for the standing crops of *til* and cotton. Common rice is selling at 17 seers per rupee at the Bankoora mart. It sold at 21 seers at Bissenpore in the previous week, but the price is reported to have slightly risen there in the last week.
3	Birbhum " 27, '89	Nil	The great heat continues. No crops on the ground. Rain wanted for ploughing. Common rice 16 seers per rupee.
4	Midnapur " 27, '89	Nil	Weather—very hot. Rain is now wanted to enable the fields to be prepared. The *boro* crop in Kasijora pergunnah of Tumlook has been reaped, and averaged 10 annas. Mulberry doing fairly.
5	Hugli " 27, '89	Nil	Weather—seasonable. Outturn of *boro* rice good. Ploughing in progress. Price of rice at Hugli Rs. 3-4 per maund, and at Johanabad Rs. 2-8 per maund.
	Howrah " 27, '89	Nil	Weather—very hot days. Tilling of lands for *aus* and jute going on. Sugarcane has been planted out to the extent of 16 annas. Rain much wanted. Common rice from 12 seers per rupee at Sudder to 16 seers per rupee at Shampur.
	Central Districts.		
Presidency Divn.			
6	24-Perghs. April 27, '89	0·21	Weather—abnormally hot with occasional clouds and high winds. Sugarcane, the only crop on the ground, is doing well. Ploughing continues, but rain much wanted. Prices of food-grains vary from 13 to 15 seers per rupee.
7	Nuddea " 27, '89	Nil	Weather—very hot. Rain much wanted. Ploughing going on. Sugarcane and indigo doing well. Sowings of early rice have commenced in the Chuadangah sub-division.
8	Khoolna " 27, '89	1·57	Weather—very hot till to-day (27th), when a good shower has cooled the temperature. *Boro* paddy is being harvested in some parts; outturn is good in Bagirhat, but unsatisfactory elsewhere. *Til* and *boro*, the only crops on the ground, were being seriously damaged for want of rain; but the rain which has fallen to-day (27th) will do them some good. It will also, if it has fallen over the whole district, enable the cultivators to sow *aus* paddy.
9	Jessore " 27, '89 Magura ... Narail ...	Nil 0·39 0·14	Weather—very hot. Rain badly wanted for sowing of *dhan* and jute. Price of rice rising.
10	Moorshedabad " 27, '89	Nil	Weather—hot and dry, but cloudy at intervals. Sowings postponed for want of rain. In consequence of the want of rain, there is scarcely any mulberry leaf available for silk rearing.
Rajshahye Divn.			
11	Dinagepur " 27, '89 Thakurgaon ...	Nil 0·98	Westerly winds commenced again. Jute and *bhadoi* paddy are being sown, and sugarcane is being planted. Some rain would be beneficial.
12	Rajshahye " 27, '89	Nil	Weather—very hot. Rain urgently wanted. Rice sells at 15½ seers per rupee.
13	Rungpur " 27, '89	Nil	Weather—still unsettled; north-westerly winds and cloudy skies, but often oppressively sultry. The young paddy is coming up splendidly. Jute is being sown, and the losses by the recent drought repaired by fresh sowings of paddy where needed. More rain is, however, needed in the south.
14	Bogra " 27, '89 Sherpore ... Nowkhilla	Nil 0·01 0·30	Weather—in the west and middle of the district, hot and dry, with occasional clouds and storms of wind; in the east some rain has fallen. Harvesting of barley and late pulses over; outturn 10 annas. Jute and paddy are still being sown, but the seedlings are withering where there has been no rain, and the prospects are poor. Rain is urgently needed. Price of common rice 19 seers per rupee.
15	Pubna " 27, '89	Nil	Weather—sultry. Slight rain in the Serajgunge sub-division. *Aus* and jute sowings are kept back for want of rain. Sugarcane and *boro dhan* are also suffering.
16	Darjeeling " 27, '89	0·72	A good deal of rain during the week, which was fairly distributed. *Bhadoi* sowing well advanced. Prospects generally fair. Recent rain has done much good.
17	Julpigoree " 27, '89	Nil	Weather—hot and cloudy. Rain much wanted. Sowing of jute and paddy going on. No change in prices.
	Eastern Districts.		
Dacca Divn.			
18	Dacca April 27, '89	0·08	Weather—very hot and cloudy at times. Cultivation of jute and paddy crops continues. Sowing of paddy going on slowly. More rain wanted. *Boro dhan* is being harvested.
19	Furreedpur " 27, '89	Nil	Weather—hot and cloudy. Sowing of *aus* and *amun* rice is retarded for want of sufficient rain. Price of common rice 13½ seers per rupee, and is rising.
20	Backergunge " 27, '89	Nil	Weather—very hot. Ploughing for *aus dhan* progressing, but more rain wanted.
21	Mymensingh " 27, '89	0·99	Weather—variable. Harvesting of *boro* rice is nearly completed. *Aus* rice and jute are being sown where there has been rain, but in the Jamalpore and Tangail sub-divisions there has been little or no rain, and the prospects are unfavourable.
Chittagong Divn.			
22	Chittagong " 27, '89	0·02	Weather—still hot. Prospects of miscellaneous crops are not favourable. Rain is much required for preparing lands for *aus* crops.
23	Noakholly " 27, '89	Nil	Weather—very hot and sultry. Harvesting of *rubbi* crops is being completed. Sowing of *aus* crops continues. Rain wanted.
24	Tipperah " 27, '89	2·13	Weather—strong winds followed by a heavy rainstorm; hot at end of week. *Aus*, *amun* and jute are being sown. Nine annas of *aus* and six annas of *amun* have been sown.
25	Chittagong Hill Tracts. ...	......	Report not received.
	Hill Tipperah " 27, '89	3·40	Weather—hot and stormy with occasional rain. Rain on 21st and 24th. Sowing of jute has commenced. Lands are being prepared for *satya* paddy and sugarcane. No change in prices.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.					
Patna Divn.	26	Patna	April 27, '89	Nil	Weather—hot. Threshing and winnowing of *rubbi* crops almost completed. Lands are being prepared for *bhadoi* crops. *Boro dhan* is ripening. Prices of food-grains stationary.
	27	Gya	„ 27, '89	A few drops.	Weather—hot; cloudy with west wind. Threshing of *rubbi* crops almost finished. Sugarcane is being irrigated. Opium weighments going on in all Agencies. Prices of food-grains rising high.
	28	Shahabad	„ 27, '89	Nil	Weather—hot with west wind. *Cheena* is being cut with an average outturn. Sugarcane doing well. Prices stationary.
	29	Durbhunga	„ 27, '89	Nil	Weather—changeable; occasionally cloudy during the latter part of the week. Rain wanted for *cheena, mung, dhan* and indigo. Threshing of *rubbi* harvest continues. Lands are being ploughed for *bhadoi*, but ploughing is not progressing favourably for want of moisture. Prices rising.
	30	Mozufferpur	„ 27, '89	Nil	Weather—hot and close, with west and east winds alternately. *Rubbi* harvest finished. Rain urgently required for indigo and *cheena*. *Bhadoi* lands are being prepared.
	31	Sarun	„ 27, '89	Nil	Weather—seasonable. *Cheena* doing well. Indigo wants rain. Opium weighments nearly over.
	32	Chumparun	„ 27, '89	Nil	Weather—hot, with east and west winds alternately. Estimated outturn of linseed from 8 to 12 annas. Opium weighments finished, the result being one-third below the estimate. *Cheena* on uplands withering for want of rain. Rain is also needed for general agricultural operations. Prices rising.
Bhagulpore Divn.	33	Monghyr	„ 26, '89	Nil	Weather—hot and sultry with occasional east wind. Threshing of *rubbi* crops finished, and the grain is being housed.
	34	Bhagulpur	„ 27, '89	Nil	Weather—very hot with return of west wind. Threshing-floors nearly cleared, and rain would now do good everywhere. Sugarcane promising. Mango crop an utter failure. Prices rising slightly.
	35	Purneah Kishengunge	„ 27, '89	Nil 0·47	Weather—hot and seasonable with west winds towards the end of the week. No crops on the ground. Sowings of *bhadoi* crop impeded for want of rain.
	36	Maldah	„ 27, '89	Nil	Weather—hot with clouds and high wind. A few drops of rain last night (26th). Harvesting of *boro* paddy has begun. Rain is much wanted for this crop as well as for *bhadoi* and *haimanti* sowings. An average mulberry crop has been reaped.
	37	Sonthal Perghs.	„ 27, '89	Nil	Weather—hot and cloudy at times. Rain wanted. No crops to report on except from Rajmehal sub-division, where *boro dhan* is in ear and *bhadoi dhan* is coming up. Prices stationary.
ORISSA.					
Orissa Divn.	38	Cuttack	„ 27, '89	Nil	Weather—hot and sultry. Ploughing of land for *beali* and *sarad* crops has made no further progress than previously reported for want of rain. Harvesting of *dalua* rice nearly completed; outturn may be estimated at 10 annas throughout the district.
	39	Pooree		......	Report not received.
	40	Balasore	„ 26, '89	Nil	Weather—very hot. Sugarcane is being planted. Cotton is in flower. Rain urgently needed all over the district.
CHOTA NAGPORE.					
South-West Frontier Agency.					
Chota Nagpore Divn.	41	Hazaribagh	April 27, '89	Nil	Weather—somewhat unsettled. Cloudy and comparatively cool. Prospects of sugarcane very good. Harvesting of *mohwa* completed; yield from 12 to 16 annas. No other crops. Prices stationary.
	42	Lohardugga	„ 27, '89	0·13	Weather—cool. Cloudy with occasional showers of rain during the latter part of the week. Nothing important to note regarding the prospects of crops. In Palamow fields are being prepared for *kapas* cultivation. Prices stationary.
	43	Singbhoom	„ 27, '89	Nil	Weather—cloudy and cool. Rain beginning to fall. Sugarcane and *boro dhan* are doing well. Prices stationary.
	44	Manbhoom	„ 27, '89	Nil	Weather—seasonable with clouds at intervals. No crops on the ground. *Mowah* is being harvested; probable outturn 10 annas. Rice selling at from 18 to 22 seers the rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 30*th April* 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 21st to 27th April 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
April	21st	155·6	9·2	29·621	88·7	100·1	20·9	79·2	81·3	0 973	78·4	73	SW by S, SW and SSW.	321	Nil	Partially cloudy.
,,	22nd	150 5	8·5	·661	88·0	96·0	15·8	80·2	82·0	1·017	79 7	78	SW by S, SSW and S	220	,,	Partially cloudy
,,	23rd	151·5	7 6	·756	88 9	99 8	19·3	80·5	81·4	0 974	78·1	73	S by W and SSW	99	,,	Chiefly cloudy, t.
,,	24th	155·7	8 3	·831	89·7	100 9	20 3	80 6	79·2	·858	74 6	64	S by E, calm and variable.	38	,,	Chifley cloudy.
,,	25th	153·8	9 8	·789	89 7	101·6	24·1	77 5	77·3	·773	71·5	59	WNW and calm	48	,,	Chiefly cloudy.
,,	26th	159·2	7 1	·758	89 7	99·6	21·5	78·1	75 8	715	69 2	52	W by S and calm ...	41	,,	Chiefly cloudy, o, g.
,,	27th	157 1	7·2	·680	87·5	98·4	20 3	78·1	78 6	·862	74 7	68	SW and SSW	127	0 15	Chiefly cloudy, o, g, p, t, [dust-storm symbol].

	Inches.
The mean pressure of the seven days	29·728
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·734
	Hours.
The total number of hours of bright sunshine	58·0
The maximum possible number of hours of sunshine	89 6
	°
The mean temperature of the seven days	88 9
The average temperature of the corresponding period for 24 years, S.-G.'s Office	84 4
The extreme variation of temperature	24·1
The maximum temperature	101 6
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	8
	%
The mean relative humidity	67
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	72
	Inches.
The total fall of rain from 21st to 27th April 1889 ...	0·15
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·86
The total fall from 1st January to 27th April 1889	4 85
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	4·55

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t, thunder, p passing temporary showers, [dust-storm symbol] dust-storm.

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 29th April 1889.

Meteorological Report of the Province of Bengal

Meteorological Division	District	Representative station	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level	Variation from mean	Wind. Prevailing direction	Mean wind velocity	Temperature. Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree ...	29·829	29·841	—	SW	274	89·7	25th, 26th April	78·1	25th April	88·1	79·2	83·6	—	82·0
		Gopalpore ...	29·816	29·866	+·012	SW	562	88·7	20th ,,	79·8	20th ,,	87·6	81·2	84·4	+2·5	84·5
		False Point ...	29·810	29·832	—·012	SSW	334	91·5	21st ,,	76·1	24th ,,	88·3	78·1	83·2	—1·7	83·4
	Cuttack	Cuttack ...	29·758	29·839	+·018	SW	122	108·4	22nd ,,	80·4	20th & 25th April	104·6	81·5	93·1	+3·2	85·1
	Balasore	Balasore ...	29·754	29·812	—·007	SSW	180·0	107·0	22nd ,,	78·7	24th to 26th April	103·9	79·8	91·9	+5·5	87·1
South-West Bengal	South-West Midnapore; South 24-Pergunnahs	Saugor Island	29·796	29·822	—·011	South-Westerly	521	95·7	26th ,,	73·0	25th ,,	93·8	80·9	87·4	+2·4	85·7
	Midnapore	Midnapore ...	29·003	29·813	+·005	S	120·5	114·4	22nd ,,	78·3	20th ,,	109·5	81·0	95·3	+4·4	89·7
	24-Pergunnahs ... ...; Howrah ... ...; Hooghly	Calcutta ...	29·789	29·810	—·009	SSW	141	101·4	26th ,,	77·2	20th ,,	98·0	79·1	89·0	+3·2	84·7
	Burdwan	Burdwan ...	29·097	29·796	—·011	S	80·3	110·2	23rd ,,	75·4	25th ,,	107·1	80·0	93·6	+5·0	85·5
	Bankoora	Bankoora ...	29·485	29·783	—	Calm	99	116·1	24th ,,	70·7	20th ,,	110·0	81·9	96·0	—	89·2
	Beerbhoom ... ...; West Burdwan	Raneegunge...	29·471	29·775	+·007	North-Westerly	106·0	112·0	22nd ,,	78·6	25th ,,	108·7	81·5	95·1	+5·3	90·5
	Moorshedabad	Berhampore	29·717	29·783	—·026	S	114·7	109·7	22nd ,,	76·5	25th ,,	105·3	79·8	92·7	+5·8	86·3
	Nuddea	Krishnaghur.	29·757	29·823	+·022?	Southerly	172·6	110·7	22nd ,,	77·7	25th ,,	105·6	79·6	92·6	+5·8	87·5
	Jessore ... ...; Khoolna	Jessore ...	29·773	29·807	—·027	Westerly	96·2	105·8	22nd ,,	74·9	21st ,,	101·6	79·3	90·5	+4·8	86·4
East Bengal	Chittagong	Chittagong ..	29·787	29·877	—·017	S	190·5	94·2	20th ,,	75·5	24th ,,	91·8	78·5	85·2	+3·0	84·6
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ...	29·818	29·830	—·015	S	204·6	99·3	26th April	77·8	20th, 21th, 25th & 26th April	94·4	78·9	86·7	+5·7	85·3
	Noakholly	Noakholly ...	29·755*	29·790*	—·047	SSE	223·3	95·0	26th ,,	73·3	24th ,,	91·1	70·1	85·3	+2·4	86·0
	Furreedpore	Furreedpore...	29·778	29·818	—·027	Variable	198	100·0	22nd ,,	74·9	25th ,,	97·8	77·9	87·9	+4·7	84·0
	Dacca	Dacca ...	29·791	29·814	—·034	Variable	190·6	99·6	26th ,,	74·7	24th ,,	96·7	78·8	87·8	+4·5	85·0
	Tipperah	Commillah ..	29·788	29·824	—·046	S	26·4	97·3	26th ,,	71·3	24th ,,	94·4	78·2	86·3	+4·8	82·8
	Mymensingh	Mymensingh .	29·762	29·821	—·031	South-Easterly	152·7	96·0	26th ,,	70·1	25th ,,	93·1	75·3	84·2	+2·6	80·8
North Bengal	Bogra	Bogra ..	29·722	29·785	—·015	ESE	255·4	104·1	26th ,,	74·1	24th ,,	100·3	77·0	88·7	+3·2	84·9
	Pubna	Serajgunge .	29·748	29·795	—·040	SSE	104·2	1?7·9	26th ,,	73·5	26th ,,	99·5	77·1	88·3	+4·9	83·2
	Rajshahye	Rampore Beauleah.	29·715	29·785	—·019	SSW	98·6	107·3	22nd ,,	76·1	25th ,,	102·7	79·0	90·8	+6·3	86·6
	Maldah . ..	Maldah ...	29·692	29·773	—	SE	66·3	105·3	23rd ,,	72·8	20th ,,	104·6	75·6	90·1	—	85·1
	Dinagepore	Dinagepore ..	29·080	29·800	—·026	North-Easterly	145	102·1	26th ,,	75·1	23rd, 24th, 25th April	96·0	76·0	86·0	+3·0	81·3
	Rungpore	Rungpore ..	29·693	29·819	—·016	ENE	140	98·8	26th ,,	69·9	20th ,,	90·6	73·7	82·1	+2·2	81·9
	Julpigoree ... ...; Cooch Behar	Julpigoree ...	29·530	29·816?	—·024	E	19·9	96·0	26th ,,	70·1	20th ,,	89·8	72·3	81·1	+2·7	79·4
	Darjeeling Hill Tracts ..	Darjeeling ..	22·993	—	+·014	WSW	178·7	?	?	51·4	24th ,,	?	54·1	?	?	58·2
North Behar	Purneah ... ..; North Bhagulpore ...	Purneah ..	29·674	29·801	—·007	NE	89·9	100·3	22nd ,,	72·9	25th ,,	97·9	75·3	86·6	+2·0	83·5
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ..	29·623	29·791	—·011	ESE	161	99·2	21st & 26th April	77·1	22nd ,,	97·1	78·7	87·9	+2·6	83·2
	Chumparun	Motihari ..	29·558	29·787	+·005	E	245	102·8	21st & 22nd April	69·8	24th ,,	100·7	73·4	87·1	+3·2	83·1
	Sarun	Chupra ..														
South Behar	Shahabad	Dehree ..	29·465	29·816	+·043	W	302·9	111·4	22nd ,,	74·0	20th ,,	104·9	81·6	93·3	+5·0	91·0
		Buxar ..	29·556	29·797	+·027	W	204·8	108·4	22nd ,,	73·3	26th ,,	102·5	78·9	90·7	+2·2	87·4
		Arrah ..	29·601	29·798	+·032	W	113·3	109·3	22nd ,,	72·7	25th ,,	104·1	77·1	90·6	+2·4	87·0
	Gya	Gya ..	29·438	29·814	+·035	W	242·9	109·8	23rd ,,	74·6	25th ,,	105·4	80·0	92·7	+2·1	89·2
	Patna	Bankipore ..	29·603	29·787	0	Variable	106·9	108·4	22nd ,,	75·0	25th ,,	103·6	78·4	91·0	+2·6	85·5
	South Bhagulpore ..; Monghyr	Bhagulpore ...	29·615	29·778	—·002	E	96	104·3	21st ,,	74·5	22nd ,,	100·1	77·4	88·8	+4·0	83·8
	Sonthal Pergunnahs ...	Doomka ...	29·201	29·781	+·006	Variable	148·1	109·2	22nd ,,	77·7	22nd ,,	105·2	79·9	92·5	+1·4	90·0
Chota Nagpore	Hazaribagh	Hazaribagh ...	27·859	29·811	+·038	NW & WNW	317·3	105·6	22nd ,,	72·6	25th ,,	100·4	77·7	89·0	+3·2	87·4
	Lohardugga ... ...; Manbhoom	Ranchee ...	27·717	29·807	+·023	NW	202·3	105·0	23rd ,,	71·7	26th ,,	100·6	78·8	89·7	+3·7	86·8
	Singbhoom	Chyebassa ...	29·050	29·812	+·037	SSW	66·0	112·0	21st ,,	78·2	25th ,,	107·5	82·4	95·0	+3·8	91·2

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rain[illegible] determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least undredth of an inch fell.

for the week ending Friday, the 26th of April 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	District observations. Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1888. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
90	2·1	Nil	0·18	0·37	0·21	0·96	−0·75	44·98	58·28	−13·30	0·5	0·6	Pooree ...	Pooree ...	Orissa.
81	0·9	Nil											Gopalpore ...		
89	3·5	0·68											False Point ...		
72	4·3	Nil	0·01	0·35	0·44	0·92	−0·48	53·58	54·85	−1·27	0·2	0·6	Cuttack ...	Cuttack ...	
66	1·3	Nil	Nil	0·53	1·50	1·36	+0·14	56·21	57·03	−0·82	0·0	0·9	Balasore ...	Balasore ...	
79	6·0	Nil	Nil	0·74	0·42	1·34	−0·92	57·17	66·38	−9·21	0·0	1·0	Saugor Island ...	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
52	2·1	Nil	Nil	0·71	1·07	1·38	−1·31	66·34	55·57	+10·77	0·0	1·0	Midnapore ...	Midnapore ...	
76	3·9	Nil	Nil	0·72	1·00	1·50	−0·50	66·10	55·92	+10·18	0·0	1·3	Calcutta ...	24-Pergunnahs... Howrah ... Hooghly	
64	5·1	Nil	Nil	0·66	0·92	1·63	0·71	57·84	50·76	+7·08	0·0	1·2	Burdwan ...	Burdwan ...	
54	2·1	Nil	Nil	0·52	1·17	0·92	+0·25	55·19	55·02	+0·17	0·0	1·0	Bankoora ...	Bankoora ...	
39	3·4	0·01	Nil	0·48	0·09	1·01	−0·92	59·77	54·24	+5·53	0·0	1·1	Raneegunge ...	Beerbhoom ... West Burdwan ...	
69	3·6	Nil	Nil	0·42	0·53	1·11	−0·58	50·40	53·37	−2·88	0·0	1·0	Berhampore ...	Moorshedabad ...	
66	3·3	Nil	Nil	0·84	2·08	2·25	−0·17	58·31	54·22	+4·09	0·0	1·6	Krishnaghur ...	Nuddea ...	
81	4·7	0·03	0·02	1·12	1·49	2·58	−1·09	47·34	59·15	−11·81	0·2	1·8	Jessore ...	Jessore ... Khoolna ...	
80	6·1	0·01	0·01	0·83	0·09	1·86	−1·77	127·13	118·45	+8·68	0·5	1·7	Chittagong ...	Chittagong ...	East Bengal.
			0·47	0·74	0·52	2·64	−2·12	74·93	87·94	−13·01	1·0	1·7	Demagiri ...	Chittagong Hill Tracts	
68	5·9	Nil	0·06	1·02	0·92	2·33	−1·41	75·10	82·58	−7·48	0·3	1·8	Barrisal ...	Backergunge ...	
74	5·0	Nil	0·16	0·91	1·34	3·15	−1·81	111·89	115·16	−3·27	0·5	2·0	Noakholly ...	Noakholly ...	
79	3·6	Nil	0·04	1·34	2·32	2·94	−0·62	51·01	62·92	−11·91	0·3	2·1	Furreedpore ...	Furreedpore ...	
76	0·9	0·08	0·33	1·73	1·66	3·78	−2·12	58·44	68·01	−9·57	1·3	2·3	Dacca ...	Dacca ...	
82	3·7	2·50	2·09	1·45	4·20	4·04	+0·16	65·50	78·53	−13·03	1·0	2·0	Comillah ...	Tipperah ...	
87	5·8	0·07	0·51	1·49	3·70	2·97	+0·73	71·24	73·46	−2·22	1·4	2·4	Mymensingh ..	Mymensingh ...	
71	6·6	Nil	Nil	0·93	0·20	1·50	−1·30	46·67	60·63	−13·96	0·0	2·0	Bogra ...	Bogra ...	North Bengal.
75	6·1	Nil	Nil	1·08	1·42	2·40	−0·98	43·91	58·36	−14·45	0·0	2·0	Serajgunge ..	Pubna ...	
65	1·6	Nil	Nil	0·64	0·72	1·31	−0·59	48·66	56·97	−8·31	0·0	1·1	Rampore Beauleah	Rajshahye ...	
64	1·3	Nil	Nil	0·23	Nil	0·72	−0·72	43·85	56·11	−12·26	0·0	0·8	Maldah ...	Maldah ...	
71	6·9	Nil	Nil	0·68	Nil	0·95	−0·95	49·52	59·54	−10·02	0·0	1·5	Dinagepore ...	Dinagepore ...	
73	5·1	1·60	1·56	1·33	2·42	2·47	−0·05	61·82	78·19	−16·37	1·0	2·0	Rungpore ...	Rungpore ...	
73	4·6	1·82	0·89	2·07	1·09	3·59	−2·50	91·43	117·04	−25·61	1·4	3·0	Julpigoree ...	Julpigoree .. Cooch Behar ...	
92	8·1	0·64	1·18	2·25	2·25	4·20	−1·95	107·42	128·34	−20·92	3·8	3·7	Darjeeling ..	Darjeeling Hill Tracts	
67	3·1	Nil	Nil	0·80	0·10	1·22	−1·12	51·39	60·87	−9·48	0·0	1·5	Purneah ...	Purneah North Bhagulpore	North Behar.
			Nil	0·16	Nil	0·47	−0·47	44·01	44·91	−0·90	0·0	0·5	Mozufferpore ...	Mozufferpore ..	
64	2·6	Nil	Nil	0·17	Nil	0·44	−0·44	43·20	45·87	−2·67	0·0	0·5	Durbhunga ...	Durbhunga ...	
50	4·1	Nil	Nil	0·13	Nil	0·51	−0·51	44·81	48·09	−3·28	0·0	0·4	Motihari ...	Chumparun ...	
			Nil	0·06	Nil	0·16	−0·16	41·68	43·77	−2·09	0·0	0·3	Chupra ...	Sarun ...	
29	2·3	Nil											Dohree ...	Shahabad ...	South Behar.
34	4·1	Nil	Nil	0·02	Nil	0·14	−0·14	44·42	40·97	+3·45	0·0	0·3	Buxar ...		
38	4·0	Drops											Arrah ...		
59	4·7	Drops	Nil	0·10	0·02	0·27	−0·25	52·89	42·72	+10·17	0·0	0·2	Gya ...	Gya ...	
48	3·9	Nil	Nil	0·06	Nil	0·17	−0·17	51·21	42·22	+8·99	0·0	0·2	Bankipore ...	Patna ...	
79	3·0	Nil	Nil	0·13	Nil	0·42	−0·42	52·38	44·51	+7·87	0·0	0·3	Bhagulpore ...	South Bhagulpore ... Monghyr ...	
41	0·3	Nil	Nil	0·22	0·24	0·59	−0·35	55·62	52·42	+3·20	0·0	0·8	Doomka ...	Sonthal Pergunnahs...	
27	7·1	Nil	Nil	0·09	0·63	0·20	+0·43	50·22	52·09	+7·13	0·0	0·3	Hazaribagh ...	Hazaribagh ...	Chota Nagpore.
39	5·0	0·03	0·06	0·04	0·55	0·29	+0·26	52·85	50·82	+2·03	0·5	0·3	Ranchi ...	Lohardugga ...	
			Nil	0·20	0·66	0·61	+0·05	48·80	49·28	−0·48	0·0	0·6		Manbhoom ...	
31	4·9	Nil	Nil	0·18	1·19	0·61	+0·58	42·49	54·21	−11·72	0·0	0·7	Chyebassa ...	Singbhoom ..	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 26th of April 1889.

Meteorological division.	District.	Station.	RAINFALL. Saturday, 20th April 1889.	Sunday, 21st April.	Monday, 22nd April.	Tuesday, 23rd April.	Wednesday, 24th April.	Thursday, 25th April.	Friday, 26th April.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·56	41·24	53·21
		Khurdah ...	...	...	...	0·02	...	...	...	1	0·02	0·12	0·62	44·67	55·55
		Banpur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·57	37·00	52·86
		False Point ...	...	...	...	0·08	...	...	...	1	0·08	0·68	2·10	56·96	68·76
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Pipli ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Cuttack ...	*Jagatsingpore*	...	...	...	...	...	...	...	Nil	Nil	Nil	0·60	58·64	49·07
		Banki ...	...	...	...	0·06	...	...	...	1	0·06	0·06	0·25	45·11	53·19
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	0·83	1·21	53·87	59·49
		Kendiapara ...	...	...	...	...	...	...	...	Nil	Nil	0·72	1·03	47·32	56·03
		Jajpore ...	...	...	...	...	...	...	...	Nil	Nil	0·58	1·57	62·08	58·00
		Dharmsala ...	...	...	...	...	...	...	...	Nil	Nil	1·25	?	58·09	?
		Salipore ...	...	...	...	...	...	...	...	Nil	Nil	0·70	?	58·39	?
	Balasore ...	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	0·80	0·88	53·95	55·16
		Bhuddruck ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·72	51·00	56·11
		Soroh ...	...	...	...	...	...	...	...	Nil	Nil	1·90	1·51	53·79	55·02
		Balasore ...	...	...	...	...	...	...	...	Nil	Nil	1·51	2·24	59·20	62·71
		Jellasore ...	...	...	...	...	...	...	...	Nil	Nil	3·03	0·93	60·62	55·77
		Baripodah ...	...	...	...	...	...	...	...	Nil	Nil	1·73	0·93	57·88	56·72
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·13	52·04	64·76
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	1·10	53·60	70·64
		Tumlook ...	...	...	...	...	...	...	...	Nil	Nil	0·70	1·28	67·90	55·46
		Midnapore ...	...	...	...	...	...	...	...	Nil	Nil	1·37	1·17	71·59	52·42
		Ghattal ...	...	...	...	...	...	...	...	Nil	Nil	1·14	1·70	59·53	58·75
		Kukrahaty ...	...	...	...	...	...	...	...	Nil	Nil	1·09	?	68·60	?
		Heria ...	...	...	...	...	...	...	...	Nil	Nil	0·12	?	54·08	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·18	?
		Garbetta ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour ...	...	...	...	...	...	...	...	Nil	Nil	1·27	1·80	60·27	63·47
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	1·05	?	58·63	?
		Alipore Jail ...	...	...	...	...	...	...	...	Nil	Nil	2·24	1·43	68·22	60·14
		Barrackpore ...	...	...	...	...	...	...	...	Nil	Nil	0·83	1·49	64·32	52·60
		Dum-Dum ...	...	...	...	...	...	...	...	Nil	Nil	0·66	1·57	68·28	55·07
		Baraset ...	...	...	...	...	...	...	...	Nil	Nil	0·40	1·52	68·24	53·64
		Busseerhat ...	...	...	...	...	...	...	...	Nil	Nil	0·62	1·54	53·95	59·20
	Howrah ...	Howrah ...	...	...	...	...	...	...	...	Nil	Nil	1·18	1·76	70·51	56·43
		Mohesreka (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	0·89	1·14	63·83	55·74
	Hooghly ...	Serampore ...	...	...	...	...	...	...	...	Nil	Nil	0·88	1·45	69·80	54·10
		Hooghly ...	...	...	...	...	...	...	...	Nil	Nil	1·70	1·52	69·81	52·16
		Jehanabad ...	...	...	...	...	...	...	...	Nil	Nil	1·54	1·61	64·89	59·04
	Burdwan ...	Culna ...	...	...	...	...	...	...	...	Nil	Nil	1·04	1·87	62·72	48·54
		Burdwan ...	...	...	...	...	...	...	...	Nil	Nil	1·36	1·73	[illegible]	51·95
		Cutwa ...	...	...	...	...	...	...	...	Nil	Nil	0·54	1·30	62·05	51·18
		Raneegunge ...	...	...	...	...	...	...	0·01	1	0·01	0·11	1·15	59·43	51·46
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	0·42	?	46·22	?
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	Nil	Nil	1·44	1·30	51·50	54·72
		Bishenpore ...	...	...	...	...	...	...	...	Nil	Nil	1·05	1·29	58·38	54·84
		Malhara ...	...	...	...	...	...	...	...	Nil	Nil	0·40	0·65	52·35	53·84
		Khatra ...	...	...	...	...	...	...	...	Nil	Nil	1·78	0·44	68·47	56·42
		Indas ...	...	...	...	...	...	...	...	Nil	Nil	1·18	?	43·89	?
		Kotalpore ...	...	...	...	...	...	...	...	Nil	Nil	1·20	?	51·38	?
		Arria ...	...	...	...	...	...	...	...	Nil	Nil	0·25	?	39·76	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	0·25	?	58·51	?
		Raipore ...	...	...	...	...	...	...	...	Nil	Nil	0·86	?	57·21	?
		Sonamukhi ...	...	...	...	...	...	...	...	Nil	Nil	1·53	?	49·45	?
	Beerbhoom ...	Bh. Soory ...	...	...	...	...	...	...	...	Nil	Nil	0·03	0·88	56·10	56·20
		Hetampore ...	...	...	...	...	...	...	...	Nil	Nil	0·12	0·83	49·94	50·53
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	0·11	1·19	73·58	54·19
		Bolpore ...	...	...	...	...	...	...	...	Nil	Nil	0·18	?	64·40	?
		Murarai ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Nuddea ...	Ranaghat ...	...	...	...	...	...	...	...	Nil	Nil	0·92	2·43	66·07	51·96
		Kishnaghur ...	...	...	...	...	...	...	...	Nil	Nil	0·51	2·08	70·88	60·55
		Chooadanga ...	...	...	...	...	...	...	...	Nil	Nil	0·75	2·19	55·67	56·20
		Meherpore ...	...	...	...	...	...	...	...	Nil	Nil	7·39	2·10	60·52	52·80
		Kooshtea ...	...	...	...	...	...	...	...	Nil	Nil	0·85	2·45	38·41	59·82
	Khoolna ...	Satkhira ...	...	...	...	...	...	...	...	Nil	Nil	0·74	2·17	42·32	61·74
		Bagirhat ...	...	...	...	...	...	...	...	Nil	Nil	1·28	2·61	53·29	[illegible]
		Khoolna ...	...	...	...	...	...	...	...	Nil	Nil	1·16	2·41	51·00	60·62
	Jessore ...	Narail ...	0·14	...	...	...	...	...	...	1	0·14	2·61	2·34	35·16	51·56
		Jessore ...	0·03	...	...	...	...	...	...	1	0·03	2·62	3·03	60·83	60·97
		Jhenidah ...	...	...	...	...	...	...	...	Nil	Nil	1·85	2·82	38·94	59·63
		Magoorah ...	...	...	...	...	...	...	...	Nil	Nil	0·85	3·24	45·35	55·13
		Bongong ...	...	...	...	...	...	...	...	Nil	Nil	0·82	2·05	51·74	56·70
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	Nil	Nil	0·10	1·38	53·50	53·25
		Berhampore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·50	43·62	54·68
		Lalbagh ...	...	...	...	...	...	...	...	Nil	Nil	0·08	0·98	49·19	53·53
		Azimgunge ...	...	...	...	...	...	...	...	Nil	Nil	1·45	1·11	?	54·93
		Jungipore ...	...	...	...	...	...	...	...	Nil	Nil	1·47	0·90	50·98	51·37
		Lalgola ...	...	...	...	...	...	...	...	Nil	Nil	0·55	1·03	54·84	53·80
		Jiagunge ...	...	...	...	...	...	...	...	Nil	Nil	0·69	?	50·09	?
		Akhrigunj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·08	?
		Pathabari ...	...	...	...	...	...	...	...	Nil	Nil	0·50	?	44·79	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·52	147·50	137·61
		Chittagong ...	...	...	...	...	0·02	...	...	1	0·02	0·17	2·10	106·73	99·87
		Kutubdia ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	117·82	?
		Satkania ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	92·32	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	0·04	...	0·90	2	0·94	1·04	2·61	78·15	90·41
		Kuma ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·65	71·09	84·44
	Backergunge	Patuakhally ...	...	...	...	...	...	...	...	Nil	Nil	0·77	2·03	89·39	92·49
		Perozepore ...	...	...	...	...	...	...	...	Nil	Nil	1·46	1·97	64·04	74·95
		Burrisal ...	...	...	...	...	...	...	...	Nil	Nil	0·09	2·52	68·91	74·02
		Bhola ...	...	...	...	...	0·22	...	...	1	0·22	0·72	2·77	78·28	87·63

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 26th of April 1889—contd.

Meteorological Division.	District.	Station.	Rainfall.							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 20th April.	Sunday, 21st April.	Monday, 22nd April.	Tuesday, 23rd April.	Wednesday, 24th April.	Thursday, 25th April.	Friday, 26th April.	Number of rainy days.	Rainfall of week.				
East Bengal—concld.		*Gournaddi* ...					2·72			1	2·72	4·33	?	56·16	?
		Bauphal ...					0·11			1	0·11	1·43	?	101·20	?
	Noakholly	Noakholly ..								Nil	Nil	0·44	3·03	112·10	115·29
		Fenny ...					0·92			1	0·92	2·22	3·25	111·65	114·05
		Harishpore ...								Nil	Nil	0·11	?	131·34	?
		Ramganj ...					0·15			1	0·15	0·97	?	91·58	?
	Furreedpore	Madaripore ..					0·13			1	0·13	1·11	2·97	48·14	62·63
		Furreedpore ...								Nil	Nil	2·65	2·97	50·34	63·58
		Goalundo ..								Nil	Nil	3·24	2·88	48·60	59·33
	Dacca ...	Munshigunge	0·31				0·50			2	0·81	2·43	4·14	64·20	79·70
		Dacca ..	0·08							1	0·08	1·58	3·79	55·38	66·33
		Narainganj	0·05				0·36			2	0·41	1·28	4·03	65·24	68·54
		Manickgunge								Nil	Nil	1·31	3·18	48·94	56·36
		Joydebpore ..								Nil	Nil	2·46	?	61·96	?
	Hill Tipperah	Agartola ...		1·10			2·30			2	3·40	5·72	4·11	60·14	71·20
	Tipperah .	Comilla ...					2·13			1	2·13	[illegible]	4·11	74·86	84·76
		Chandpore ..								Nil	Nil	0·80	3·89	59·97	86·24
		Brahmunberia					2·82			1	2·82	3·57	4·06	75·82	71·33
		Ramchandrapore.					1·47			1	1·47	2·82	?	63·68	?
		Nasirnagar ...					2·50			1	2·50	4·44	?	63·73	?
		Daudkandi .								Nil	Nil	1·50	?	64·18	?
		Kasba ..	1·50				1·23	0·47		3	3·20	4·71	?	61·80	?
		Laksham ..					1·70			1	1·70	1·70	?	83·11	?
	Mymensingh .	Kishoregunge				0·24	1·89			2	2·13	5·20	3·82	88·73	77·78
		Atia (*Tangail*)								Nil	Nil	1·07	2·26	40·19	60·31
		Mymensingh	0·06	0·06			0·07			3	0·19	4·53	3·40	74·40	80·53
		Jamalpore								Nil	Nil	0·53	2·44	67·51	70·18
		Netrokona		0·14	0·09					2	0·23	7·37	2·92	85·34	78·20
		Subornakhally								Nil	Nil	2·20	?	64·37	?
		Durgapore		2·00						1	2·00	4·16	?	114·17	?
		Sherepore town	0·77							1	0·77	3·27	?	?	?
		Dewanganj .	0·18							1	0·18	1·99	?	57·75	?
North Bengal.	Pubna	Pubna ...								Nil	Nil	2·26	2·62	43·13	59·26
		Serajgunge ...								Nil	Nil	0·58	2·15	44·67	57·29
	Bogra .	Sherpore ..								Nil	Nil	0·08	1·22	43·81	61·40
		Nowkhilla ...								Nil	Nil	0·70	1·51	52·57	58·25
		Bogra ...								Nil	Nil	Nil	1·81	43·31	64·09
		Panchbibi ..								Nil	Nil	Nil	1·44	46·99	58·63
	Rajshahye	Beauleah .								Nil	Nil	0·16	0·98	34·08	55·57
		Nattore .								Nil	Nil	1·28	1·63	63·28	58·39
		Naogaon .								Nil	Nil	0·04	?	39·68	?
		Lalpore ...								Nil	Nil	1·62	?	41·65	?
		Manda .								Nil	Nil	Nil	?	32·84	?
	Maldah ..	Maldah .								Nil	Nil	Nil	0·77	51·85	53·72
		Chanchal ...								Nil	Nil	Nil	0·66	35·79	58·40
		Gajol ...								Nil	Nil	Nil	?	40·53	?
		Sibganj ..								Nil	Nil	0·32	?	49·10	?
	Dinagepore ...	Mohadebpore								Nil	Nil	Nil	0·90	41·24	60·73
		Churamon ..								Nil	Nil	Nil	0·49	50·79	54·58
		Raigunge ..								Nil	Nil	Nil	0·98	53·56	61·41
		Dinagepore								Nil	Nil	Nil	1·44	59·79	66·91
		Baloorghat								Nil	Nil	Nil	0·89	42·13	55·22
		Thakoorgaon	0·46							1	0·46	0·98	?	54·20	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).								Nil	Nil	1·64	2·29	50·19	65·91
		Rungpore ...	2·00							1	2·00	2·82	2·13	58·52	78·43
		Kurigram ..	1·30	0·20						2	1·50	1·60	3·06	78·36	78·85
		Bagdogra (*Nilphamari*)	2·75							1	2·75	3·64	2·36	60·12	89·26
		Ulipore ..	0·95							1	0·95	1·82	?	59·15	?
	Julpigoree ...	Julpigoree	0·05							1	0·05	0·95	3·57	108·05	123·35
		Alipore Door								Nil	Nil	3·00	?	88·58	?
		Fallacotta .	0·51	0·02						2	0·53	3·53	?	96·55	?
		Debiganj ...	1·40							1	1·40	1·40	?	65·68	?
		Bhagatpore (Nagrakatta).	1·15		0·07					2	1·22	2·07	?	?	?
	Cooch Behar.	Dinhatta	0·53	0·36						2	0·89	1·22	3·39	94·83	98·61
		Cooch Behar .	0·75							1	0·75	1·05	4·31	95·03	125·03
		Mickilgunge .	1·42							1	1·42	1·42	3·32	80·49	113·36
		Matabhanga .	0·35	0·11						2	0·46	0·63	3·38	77·95	122·94
	Darjeeling Hill.	Buxa .	0·13	0·18	0·57	0·05				4	0·93	1·89	7·29	108·43	204·15
		Silliguri .	1·17		0·10	0·05	0·45			4	1·77	2·15	2·84	88·84	108·33
		Darjeeling ...	0·26	0·11			0·37		0·08	4	0·72	3·02	3·80	96·08	115·29
		Kalimpong ..	0·34				0·50		0·45	3	1·29	2·07	2·86	76·37	88·79
North Behar	Purneah ..	Kissengunge ...								Nil	Nil	0·47	1·46	50·03	73·08
		Arrareah ..								Nil	Nil	Nil	1·27	53·47	66·19
		Purneah ..								Nil	Nil	Nil	1·99	46·85	64·33
		Gondwara ..								Nil	Nil	Nil	?	?	?
		Balarampore								Nil	Nil	Nil	?	?	?
		Matiari ...								Nil	Nil	Nil	?	?	?
		Kaliaganj .								Nil	Nil	0·38	?	60·05	?
	North Bhagulpore.	Maddapore ..								Nil	Nil	Nil	0·70	61·06	51·38
		Soopool ...								Nil	Nil	Nil	0·63	45·53	49·74
		Protabganj ...								Nil	Nil	Nil	?	41·14	?
	Durbhunga	Tajpore ..								Nil	Nil	Nil	0·20	46·10	44·03
		Durbhunga ..								Nil	Nil	Nil	0·48	39·21	47·14
		Madhubani ..								Nil	Nil	Nil	0·66	44·32	46·66
		Bahera ..								Nil	Nil	Nil	?	55·51	?
		Roshera ..								Nil	Nil	Nil	?	47·09	?
	Mozufferpore	Sitamarhi .								Nil	Nil	Nil	0·96	36·51	45·09
		Mozufferpore								Nil	Nil	Nil	0·36	46·10	40·94
		Hajipore ...								Nil	Nil	0·01	0·11	49·42	42·93
		Paru ...								Nil	Nil	Nil	?	40·09	?
		Mahua ..								Nil	Nil	Nil	?	40·29	?
		Sunnar ...								Nil	Nil	Nil	?	42·94	?
		Pupri ...								Nil	Nil	Nil	?	25·56	?
	Chumparun...	Motihari ...								Nil	Nil	Nil	0·51	40·03	40·07
		Bettiah ...								Nil	Nil	Nil	0·41	49·54	40·94
		Bagaha ...								Nil	Nil	Nil	?	56·22	?
		Burhurwa ...								Nil	Nil	Nil	?	43·17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 26th of April 1889—concld.

Meteorological Division.	District.	Station.	Rainfall.							Total.		Total rain fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1888.	Average rainfall from 15th May to date.
			Saturday, 20th April 1889.	Sunday, 21st April.	Monday, 22nd April.	Tuesday, 23rd April.	Wednesday, 24th April.	Thursday, 25th April.	Friday, 26th April.	Number of rainy days.	Rainfall of week.				
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	41·34	44·76
		Sewan	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	44·44	44·88
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·17	39·25	41·61
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	43·33	39·35
		Dehree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	40·13	39·95
		Bhubooah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·12	42·23	42·61
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	44·11	41·56
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	46·34	41·24
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36·29	?
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	0·07	0·28	53·21	43·85
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·29	56·01	43·81
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·27	51·18	41·30
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·16	49·12	41·65
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·08	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43·15	?
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28·58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·91	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·18	43·51	42·87
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·21	45·24	42·27
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	56·62	43·08
		Barrh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	59·61	40·66
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·05	?
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·16	?
	Monghyr	Begooserai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·23	51·73	41·20
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	56·93	47·65
		Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	52·50	44·54
		Gogri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·63	56·78	43·63
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·[illegible]	44·01	44·24
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	0·85	48·72	53·52
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0·46	52·17	46·56
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0·19	0·33	65·66	56·35
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	0·59	0·78	55·21	55·40
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	0·66	54·00	52·05
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	0·34	0·45	57·93	49·77
		Mohagama	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Nonihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29·71	?
CHUTIA NAGPUR.	Hazaribagh	Pachumba (*Giridi*)	...	...	...	...	...	...	...	Nil	Nil	0·55	0·43	58·80	40·23
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	0·42	0·33	57·28	40·78
		Semtagurah	...	...	...	...	...	...	...	Nil	Nil	1·11	0·19	57·89	47·74
		Mahuda Hills	...	...	...	...	...	...	...	Nil	Nil	0·47	0·06	56·54	49·88
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	64·90	63·64
		Barhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51·49	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	0·18	?	58·40	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·60	?
		Ramghur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Lohardugga	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	0·76	0·12	50·10	53·67
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	0·63	0·49	54·57	54·82
		Palamow	...	...	...	...	...	0·12	...	1	0·12	0·20	0·21	55·80	44·73
		Silli	...	...	...	...	...	...	...	Nil	Nil	0·40	?	?	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Hossainabad	...	...	...	...	...	...	...	Nil	Nil	0·23	?	?	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	48·08	?
	Singhbhoom	Chyebassa	...	...	...	...	...	...	...	Nil	Nil	1·19	0·61	42·49	54·36
		Chakradharpore	...	...	...	...	...	...	...	Nil	Nil	0·8[illegible]	?	50·52	?
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	0·94	?	56·18	?
		Baharagura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62·32	?
	Manbhoom	Purulia	...	...	...	...	...	...	...	Nil	Nil	1·20	0·69	59·45	51·73
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	0·11	0·54	38·11	46·95
		Raghunathpore	...	...	...	...	...	...	...	Nil	Nil	0·04	?	55·87	?
		Burrabhoom	...	...	...	...	...	...	...	Nil	Nil	1·93	?	53·65	?
		Jhalda													
		Chas	...	...	...	...	...	...	...	Nil	Nil				

Explanation.—...... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 30*th April* 1889.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 26TH APRIL 1889.

At the close of the previous week conditions were fairly normal for the period, but on the morning of the 20th a rapid fall of pressure had taken place over Bengal, while over the remainder of Northern India pressure was rising. A feeble low-pressure area was therefore formed over the province, and conditions became slightly disturbed, but beyond giving a few local storms in East Bengal which were accompanied by light rain only, and a rather general series of disturbances in the districts of North Bengal near the hills which were accompanied by heavy rain, the depression caused no changes of importance On the 21st a further very rapid fall of pressure took place over Bengal, which rather intensified the depression, but the local storms caused by the disturbance were less numerous on this day than on the 20th From the 22nd pressure commenced to rise, the increase being at first slow ; but on the 23rd and 24th it was very rapid, and the distribution of pressure entirely changed, and pressure became decidedly high over North-Eastern and Central India, and to a certain extent over Bengal also. With the change in the distribution of pressure the strong southerly winds which had been blowing at the head of the Bay commenced to fall off in force, and on the 24th north-westerly winds had begun to make themselves felt in the western districts, and by the morning of the 25th a very abnormal dry north-westerly wind was blowing over a large part of South Bengal, and had completely driven back the strong southerly winds which had been previously blowing On the 24th, owing to the disturbance produced by this interaction, a series of local storms, in some cases attended with very heavy rain, occurred in East Bengal, but all other districts remained practically rainless This abnormal north-westerly current continued to blow on the 25th and 26th over a very considerable part of the province, but perhaps less strongly on the 26th. And on these days pressure commenced to fall, the fall being moderately large on the 25th and small on the 26th. Even at the close of the week, however, the pressure distribution was somewhat unusual, and decidedly high pressures were recorded in the west of the province in connection apparently with a high-pressure area which existed over Central India

Pressure.—The pressure changes during the week have therefore been large. On the first two days there was a particularly rapid fall; this was followed by a rise almost equally rapid which lasted for three days, and then by a moderate fall for two days. For the whole week the mean pressure of the province has been almost normal, the average variation not exceeding five thousandths of an inch. At the western stations pressure has been in decided excess, while elsewhere slight defective pressures have been recorded.

Temperature.—For the greater part of the week temperature has been increasing. The increase was very decided during the first three days ; this was followed by two or three days when the changes were a little variable, but towards the close of the week again temperature commenced to increase Temperature has consequently been rather largely in excess of the normal, the excess in the mean temperature in Bengal being 4·4° and in East and North Bengal about 4°. For the whole province the excess in the mean temperature has averaged 3 4°.

The general distribution of temperature during the week and its variation from the normal are clearly shown in the following table, where the average maximum, minimum and mean temperatures for the week at nine typical stations in the province are compared with the normal values. From the table it will be seen that both the day and night temperatures have been rather largely above the normal : —

Table showing the excess or defect of the actual mean temperature from the normal for the week ending Friday, the 26th April 1889.

	Normal mean maximum temperature for the week ending 26th April	Actual mean maximum temperature for the week ending 26th April 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 26th April.	Actual mean minimum temperature for the week ending 26th April 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 26th April.	Actual mean daily temperature for the week ending 26th April 1889.	Variation of actual mean from the normal.
Cuttack	101·6	104 6	+3·0	78·1	81 5	+3 4	89 9	93 1	+3 2
Calcutta	95 3	98·9	+3·6	76 3	79 1	+2 8	85 8	89 0	+3·2
Dacca	92 5	96·7	+4 2	74 1	78 8	+4 7	[illegible]	[illegible]	+4 5
Burdwan	100 6	107 1	+6·5	76 5	80 0	+3 5	88 6	93 6	+5 0
Patna	102 8	103·6	+0·8	73 9	78·4	+4 5	88 4	91 0	+2·6
Gya	105 0	105 4	+0 4	76·1	80 0	+3 9	90·6	92 7	+2 1
Purneah	98 2	97 9	−0·3	71 0	75·3	+4·8	84 6	86 0	+2 0
Hazaribagh	99 0	100 4	+1 4	72·5	77 7	+5 2	85 8	89 0	+3 2
Darjeeling	61·2	?	?	47·8	54 1	+6 3	54 5	?	.

Rainfall.—The only districts in which the rainfall during the week has been at all important have been East and North Bengal, where the falls have averaged about half an inch. In other districts the rainfall has been so small that it does not average more than a few hundredths of an inch In all districts the falls have been very considerably below the normal for the period.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th April 1889:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 16th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	108 4	76 1	94·5	70·9	87·2	+2·4	0·05	0·43	−0·38	0·2	0 8	−0·6	0·80	1·11	52 63	56·60
South-West Bengal ...	116·1	73 0	104·5	80·3	92·4	+4·4	Nil	0·72	−0·72	0·0	1·3	−1·3	1·04	1·02	58·17	56 12
East Bengal	100 0	70·1	94·2	78 1	86·2	+4·0	0·56	1·28	−0·72	1·0	2 0	−1·0	2·19	3 10	74 59	81·29
North Bengal	107 9	69·9	97·6	75·8	86 7	+3·7	0·45	1·11	−0·66	0·4	1 7	−1·3	0·84	1 98	57 50	74·21
North Behar	102·8	69·8	98·6	75·8	87·2	+2·6	Nil	0 34	−0·34	0·0	0·7	−0·7	0·03	0·65	45·73	50·32
South Behar	111 4	72 7	103·7	79 1	91·4	+3 2	Nil	0·11	−0·11	0·0	0 3	−0·3	0·06	0·33	51·73	45·04
Chutia Nagpur	105 6*	71·7*	100·5*	78·3*	89 4*	+3·4*	0·01	0·11	−0·10	0·1	0·4	−0·3	0 63	0·34	52·82	51·42

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 30th April 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th April 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
April .	21st .	29·676	90·7	101 5	21 6	79·9	94 6	83·5	·999	79 2	62	Nil
. .	22nd ..	717	89 0	97 5	17·1	80·4	91 6	83·5	1·040	80·4	79	,,
.	23rd .	831	90 4	100 0	19·2	80·8	92 1	83 0	1·007	79 5	67	,,
,, ..	24th ..	·917	91 7	102 0	20 7	81 3	92 4	82·9	997	79·1	66	,,
,, ...	25th	886	90 5	102 8	24 6	78 2	94 6	77 5	·713	69 1	44	,,
,, ...	26th ..	851	88 9	100·2	22·6	77 6	94·2	76 0	·653	66 6	41	,,
, ...	27th ...	774	90 5	101·0	21·0	80 0	93 4	80·3	·858	74·6	55	,,

The mean 10 A.M. pressure of the seven days ... ... Inches. 29·897

The mean temperature of the seven days ... ... 90·2°
The extreme variation of temperature ... ... 25·2
The maximum temperature ... ... 102·8

The mean 10 A.M. relative humidity of the seven days ... ... 58 %

The total fall of rain from 21st to 27th April 1889 ... ... Inches. Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 29th April 1889.

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE table appended to this memorandum exhibits the vital statistics of the principal Municipalities in Bengal (excepting the Hughli and Chinsurah Municipality, from which no return has been received) for the week ending 13th April 1889. The figures in this table indicate—

1. Births were registered in this Municipality at the rate of 21·4 per 1,000 of population, against very nearly the same proportion, viz., 21·3 per 1,000, during the preceding week ending 6th April, and deaths at 21·4 per 1,000 against 24·8 per 1,000, indicating a large retrogression in the registration of deaths.

2. These events were returned in the highest proportions from the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Comillah	46·2	Purneah	76 2
Narainganj	45·5	Puri	46 1
Durbhanga	43 8	Gya	40·3
Serampore	35·3	Rampore Beauleah	39·4
Bhagulpore	34·4		
Howrah	29 8		

3. The subjoined table gives the death-rates from the following specific diseases. The figures denote that as compared with the results of the preceding week, there was an abatement of mortality from all the diseases, noticeably from cholera :—

	Ratio per *mille* during the weeks ending— 13th April 1889.	6th April 1889.
Cholera	4·0	5·3
Small-pox	·1	·3
Fever	8·6	9 1
Bowel-complaints	2 1	2·6
Injury	·2	·3
Other causes	6·4	7·2

4. The highest death-rates from cholera and the diseases coming under the head of "Other causes" were returned from the following Municipalities :—

Cholera.	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Purneah	51·9	Bhagulpore	18 1
Puri	23·0	Narainganj	16·6
Serampore	13 7	Purneah	13 9
Rampore Beauleah	10 5	Gya	12 3
Gya	7 5	Chupra	10 7
Howrah	5 2	Puri	10·5
Dacca	3 9		

The other maladies, excepting fever, did not prove conspicuously fatal anywhere. Fever appears to have prevailed with noticeable fatality only in Rampore Beauleah Municipality, where the death-rate was 21·0 per 1,000 of population.

5. With reference to *Sex*, *Class* and *Age*, the mortality of the week stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille*
Males	24·2	Christians	13 5	Under 1 year ...	183 8
Females	18·3	Hindus	21 9	1 and under 5 years ...	20·0
Ratio of male deaths to every 100 female deaths	142	Mahomedans. ...	20 2	5 „ 10 „ ...	8 7
		Budhists ...	25 7	10 „ 15 „ ...	10·5
		Other classes ...	78·4	15 „ 20 „ ...	15 9
				20 „ 30 „ ...	13 9
				30 „ 40 „ ...	11 9
				40 „ 50 „ ...	20·6
				50 „ 60 „ ...	24·3
				60 years and upwards ...	53·0

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 30*th April* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 13th April 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease															Sex.				
					Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
Districts.	Names of Municipalities.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	7	8	15	10·7	12·2	22·9	87	...		9	2		1	12	..	.	13·7	3·1	..	1·5	18·3	4[illegible]·2	5	7	14·4	22·7	71
Midnapore... ..	Midnapore	16,927	16,633	33,560	8	3	11	12·4	4·6	17·0	266	3	.	2	2	..	2	9	4·6	.	3·1	3·1	..	8·1	13·9	24·8	6	3	18·4	9·4	200
Hughli	Hughli and Chinsurah .											Return not received up to date.																			
Serampore ... {	Serampore	13,559	12,937	26,496	13	5	18	25·5	9·8	35·3	260	7	..	3		...	3	13	13·7	...	5·9		..	5·9	25·5	31·4	11	2	42·2	8·0	550
	Utterpara	3,046	2,464	5,510		1	1	.	9·4	9·4	No male birth	...	..	1	.			1	...	...	9·4	...	..		9·4	28·3	...	1	.	21·1	No male death.
Howrah .. .. {	Howrah	53,153	37,660	90,813	30	22	52	17·2	12·6	29·8	1[illegible]6	9	..	11	3	1	10	34	5·2	...	6·3	1·7	·6	5·7	19·5	22·9	24	10	23·5	13·8	240
	Bali	7,836	6,979	14,815	2	3	5	7·0	10·5	17·5	66	..	...	3	...	..	3	6	..	...	10·5		..	10·5	21·1	31·6	1	5	6·6	37·3	20
Nuddea ... .. {	Kishnaghur	13,263	14,214	27,477	5	2	7	9·4	3·8	13·2	2[illegible]0	3	..	5	...		1	9	5·7	...	9·4	...	...	1·9	17·0	13·2	6	3	23·5	11·0	200
	Ranaghat	4,028	4,655	8,683		2	2	...	12·0	12·0	No male birth.	...	...	..		..	..	..	..	..	.	..	...	...	...	6·0	..	.	.	...	... . .
	Santipore	13,708	15,979	29,687	6	5	11	10·5	8·8	19·3	120	1	...	8	.	.	.	9	1·8	...	14·0	...	...	...	15·8	10·5	8	1	30·3	3·3	800
Jessore	Jessore	4,830	3,665	8,495	1	2	3	6·1	12·2	18·4	50	...	...	3	...	...	..	3	.	...	18·4	...	...	..	18·4	12·2	.	3	...	42·6	No male death.
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	4	6	10	10·5	15·8	26·3	66	4	...	8	...	.	3	15	10·5	...	21·0	.	...	7·9	39·4	42·0	9	6	43·5	34·6	150
Darjiling	Darjiling*	5,029	2,947	7,976	...	2	2		13·0	13·0	No male birth.	..	...	.	.	...		.	...	...	..		.	...	...	39·1	...		...	...	... . ..
Dacca ... ... {	Dacca	42,782	37,379	80,161	10	7	17	6·5	4·5	11·0	142	6		9	3	1	12	31	3·9	...	5·8	1·9	·6	7·8	20·1	35·7	23	8	28·0	11·1	287
	Naraingunj	7,605	4,956	12,561	5	6	11	20·7	24·8	45·5	83	1	...	1	1	.	4	7	4·1	...	4·1	4·1	...	16·6	20·0	29·0	3	4	20·5	42·0	75
Chittagong ..	Chittagong	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	...	...	4	1		1	6	...	...	9·4	2·3	...	2·3	14·1	14·1	5	1	19·5	5·9	500
Tipperah	Comillah	8,153	5,353	13,506	3	9	12	11·5	34·6	46·2	33	2	...	2	...	..	3	7	7·7	...	7·7	..	.	11·5	27·0	15·4	3	4	19·1	38·9	75
Patna	Patna City	78,762	81,475	160,237	20	14	34	6·5	4·5	11·0	142	5		21	14	1	8	49	1·6		6·8	4·5	·3	2·6	15·9	11·7	32	17	21·1	10·8	188
Gya	Gya	38,290	37,831	76,121	9	13	22	6·1	8·9	15·0	69	11	1	27	2	.	18	59	7·5	·7	18·4	1·4	..	12·3	40·3	49·2	34	25	46·[illegible]	34·4	136
Shahabad	Arrah	20,960	22,505	43,465	7	8	15	8·4	9·5	17·9	87	.	.	4		.	..	4	..	...	4·8	...		...	4·8	4·8	3	1	7·4	2·3	300
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	8	11	19	9·7	13·4	23·1	72	...	...	5	1	..	3	9	..	.	6·1	1·3	...	3·6	10·9	24·3	5	4	11·3	10·6	125
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	26	29	55	20·5	22·8	43·3	89	1	...	20	2	...	9	32	·8	.	15·7	1·6	..	7·1	25·2	23·6	13	19	20·0	30·6	68
Sarun	Chupra	26,044	27,205	53,249	10	10	20	9·7	9·7	19·5	100			4	2	.	11	17	...	...	3·9	2·0		10·7	16·6	12·7	9	8	18·0	15·3	112
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	21	17	38	19·0	15·4	34·4	123	..		7	.		20	27	..	...	6·3	..	...	18·1	24·4	27·2	10	17	17·5	31·8	58
Monghyr	Monghyr	28,154	29,366	57,520	15	15	30	13·5	13·5	27·1	100	.	..	10	5	1	6	22	...	...	9·0	4·5	·9	5·4	19·9	12·7	11	11	20·3	19·5	100
Purneah	Purneah	8,463	6,553	15,016	2	2	4	6·9	6·9	13·9	100	15	..	2	1	.	4	22	51·9	.	6·9	3·5	...	13·9	76·2	90·0	12	10	73·7	79·4	120
Puri	Puri	13,247	11,537	24,784	4	3	7	8·4	6·3	14·7	133	11	1	1	4		5	22	23·0	2·1	2·1	8·4	...	10·5	46·1	56·6	17	5	66·7	22·5	340
	Total ...	536,506	495,918	1,032,424	218	207	425	11·0	10·4	21·4	105	79	2	170	43	4	127	425	4·0	·1	8·6	2·1	·2	6·4	21·4	24·8	250	175	24·2	18·3	142

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

		13					14				
		MORTALITY ACCORDING TO— Class.									
		Deaths among—					Ratio per 1,000 of Population per Annum.				
Districts.	Names of Municipalities.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	..	8	4	...	...	..	17·6	20·3	..	.
Midnapore	Midnapore	.	7	2	...	...	...	14·0	14·4	...	...
Hughli	Hughli and Chinsurah										
Serampore	Serampore	...	12	1	...	..	...	21·7	55·4	..	...
	Utterpara	...	1	...	...	...	...	9·8		...	...
Howrah	Howrah	...	19	14	.	1	..	14·5	35·5	..	215·8
	Bali	...	6	.	...	...	...	23·3	.	...	..
Nuddea	Kishnaghur	...	5	4	..	...	...	14·0	25·1	...	...
	Ranaghat	...	...	.	...	...	..	.	.	...	...
	Santipore	...	6	3	...	...	...	15·1	17·4	..	...
Jessore	Jessore	1	1	1	..	...	321·0	11·5	13·6	...	...
Rajshahye	Rampore Beauleah	...	7	8	...	...	..	36·7	42·4	...	.
Darjiling	Darjiling	..	...	...	.	.	.	.	.	...	..
Dacca	Dacca	..	20	11	...	..	..	25·8	14·5		...
	Naraingunj	.	4	3	...	.	..	32·9	25·3		...
Chittagong	Chittagong		1	4	1	...	...	9·0	13·6	216·7	...
Tipperah	Comillah	...	2	5	...		...	7·5	35·2	..	..
Patna	Patna City		38	11	..	...	.	16·6	14·9	..	...
Gya	Gya	...	53	6	...	...	..	45·9	19·4	...	...
Shahabad	Arrah	...	4	...	...	...	...	6·7		...	..
Mozufferpore	Mozufferpore	..	5	4	...	...	...	8·7	16·7	..	...
Durbhanga	Durbhanga	...	20	12	...	..	..	21·5	35·5	.	.
Sarun	Chupra	...	14	3	...	...	.	17·7	13·0	..	...
Bhagulpore	Bhagulpore	...	22	5	...	...	..	28·8	15·1	...	...
Monghyr	Monghyr	1	19	2	...	...	218·5	22·1	8·3	...	...
Purneah	Purneah	.	13	9	..	...	...	73·7	52·7	..	
Puri	Puri	..	22	..	...	..	...	16·6			
	Total	2	309	112	1	1	13·5	21·9	20·2	25·7	78·4

		15										16									
		MORTALITY ACCORDING TO— Age.																			
		Deaths.										Ratio per 1,000 of Population per Annum.									
Districts.	Names of Municipalities.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	2	1	..	1	1	1	1	..	1	4	175·6	23·0	..	30·7	16·6	6·6	7·5	...	21·2	140·4
Midnapore	Midnapore	...	2	...	...	.	..	3	1	1	2	.....	44·3	......	..	......	..	28·1	14·0	25·2	56·8
Hughli	Hughli and Chinsurah	Return not received up to date.																			
Serampore	Serampore	2	1	.	...	...	2	2	5	...	1	146·5	28·8	......	......	......	19·3	20·9	77·1	......	37·4
	Utterpara	...	1		...	...	..	...	...	.	.	...	123·5	...	......	......	...	...	......	......	...
Howrah	Howrah	6	3	2	3	.	7	5	3	1	4	151·2	28·2	16·5	23·7	......	16·0	13·5	13·3	18·9	55·5
	Bali	1	..	...	...	...		1	1	2	1	148·6	...	......	...	...	......	18·6	26·9	99·2	71·0
Nuddea	Kishnaghur	.		1	1	1	2	...	1	2	1	...	......	15·1	18·5	25·3	21·6	......	15·9	49·4	30·1
	Ranaghat	..		.	...	..	...	...	..	...	..	.....	......	......	......	.....	......	......	...	......	......
	Santipore	3	..	...	1	1	.	...	...	2	2	184·0	......	......	17·9	23·4	...	......	......	45·2	53·0
Jessore	Jessore	3	...	.	...	...	...	..	..	...	...	804·1	......	.....	.....	......	......	..	......	...	......
Rajshahye	Rampore Beauleah	2	1	1	...	4	2	...	3	1	1	256·2	36·7	25·0	...	125·2	25·0	......	63·6	41·9	54·0
Darjiling	Darjiling	...	..	...	...	...	...		...	...	...	...	......	.....		...	...	......	...	......	......
Dacca	Dacca	5	4	1	3	2	3	5	5	2	1	137·0	28·2	5·2	19·6	14·2	10·2	22·3	31·0	22·0	9·3
	Naraingunj	3	1		...	.	..		1	1	1	559·1	45·6	...	...	......	...	...	37·3	66·4	79·8
Chittagong	Chittagong		2	...	...		1	1	2	...	...	......	52·9	...	......	...	11·2	15·6	46·1	.	..
Tipperah	Comillah	1	.	2	1	..		..	..	..	3	175·1	...	63·9	35·6	......	...	...	......	......	230·1
Patna	Patna City	10		1	3	2	4	4	4	7	14	120·6	...	3·1	10·8	9·3	7·2	8·9	11·0	25·8	52·7
Gya	Gya	11	4	2	3		8	5	9	6	11	319·6	32·7	14·9	23·2	...	28·3	20·4	47·9	47·5	111·1
Shahabad	Arrah	..	...	1	...	.	1	.	1	1	...	......	......	10·1	......	...	6·6	...	11·1	16·8	..
Mozufferpore	Mozufferpore	1			..	...	2	...	4	...	2	54·5	...	.	...	...	12·1	...	41·5	...	45·7
Durbhanga	Durbhanga	14	5	3		1	4	1	1	.	3	467·6	34·2	19·9	.....	12·9	15·6	4·7	7·0	...	48·8
Sarun	Chupra	5	4	..	..	3	...	1	1	1	2	180·1	39·2	..	.....	43·7	...	6·4	8·3	12·3	29·9
Bhagulpore	Bhagulpore	7	4	2	..	4	1	5	1	...	3	304·9	38·4	17·7	......	49·7	4·8	25·0	8·1	......	43·3
Monghyr	Monghyr	6	2	.	...	4	3	..	.	2	5	210·1	16·7	...	..	55·1	15·1	...	.....	26·2	72·5
Purneah	Purneah	4	..	1	1	1	11	2	...	..	2	735·0	....	32·9	43·5	52·3	174·1	36·5	......	.	128·9
Puri	Puri	1		1	2		3	3	5	5	2	171·6	.....	23·2	55·4	.....	29·5	38·5	78·2	116·5	57·6
	Total	87	[illegible]	15	19	24	55	59	48	35	65	183·8	20·0	8·7	10·5	15·9	13·9	11·9	20·6	25·3	53·0

Office of Sanitary Commissioner for Bengal,
The 30th April 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 27th April 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 27th April 1889.			Week ending Saturday, the 28th April 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	234	63,955	962	311	87,260	1,346
Jute	19	9,050	133	8	3,700	57
Firewood	121	87,410	1,013	91	45,185	665
Other articles	641	2,51,425	2,766	671	146,700	2,170
Total ...	1,015	4,11,840	4,874	1,081	2,82,845	4,238

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of January 1889 as compared with the same month of the previous year.

Staples.	1889. Up.	1889. Down.	1888. Up.	1888. Down.	Total. 1889.	Total. 1888.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	13,300	2,704	7,836	1,374	16,004	9,210	6,794	...
Cotton, raw	13	626	16	374	639	390	249	...
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece goods—								
1.—European—								
a.—In bales and bundles	2,229	208	1,907	179	2,437	2,086	351	......
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	1,178	2,790	3,805	6,846	3,968	10,651	..	6,683
5.—Others	869	9,056	767	7,233	9,925	8,000	1,925	......
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	10	701	12	543	711	555	156	......
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	......	4,601	......	2,642	4,601	2,642	1,959	... ..
b.—Unscrewed	7	19,611	7	11,127	19,618	11,134	8,484	..
2.—Gunny bags and cloth	132	892	194	821	1,024	1,015	9	...
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	1,407	154	915	110	1,651	1,025	626	......
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	304	4	215	28	398	243	155	....
3.—Others	171	43	204	37	214	241	......	27
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	35	998	77	586	1,033	663	370	......
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	154	73	54	241	227	295	....	68
3.—Others	563	611	408	358	1,174	766	408	....
Railway plant and rolling-stock	4,670	2,713	218	711	7,383	929	6,454	..
Salt	3,140	4	429	22	3,144	451	2,693	...
Sugar—								
1.—Drained	911	1,061	736	594	1,972	1,330	642	... ..
2.—Undrained								
Tea—								
1.—Foreign	2	338	1	277	340	278	62	...
2.—Indian								
Wood—								
1.—Timber	102	146	103	125	248	228	20	..
2.—Firewood	2,470	.	1,584	119	2,470	1,703	767	.
Tobacco	42	1,288	61	557	1,330	618	712	......
All other articles of merchandise—								
1.—Unmanufactured	4,646	1,788	3,095	1,581	6,434	4,676	1,758	......
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections)	813	......	402	...	813	402	411	...
Total ...	37,348	50,410	23,016	36,485	87,758	59,531	35,005	6,778

Comparative Statement of the principal commodities carried over the Eastern Bengal State Railway during the month of January 1889.

INCREASES.

	Tons.
Coal ...	6,794
For Railway and Flotilla purposes: also for brick-burning for Kidderpore Docks.	
Cotton piece-goods ...	351
Increase in despatches from Armenian Ghât and Calcutta for up-country consumption.	
Jute ...	10,443
The Northern Bengal State Railway contributed about 6,000 tons of the above increase; there were also large increases in despatches from Serajganj and Naraingunj.	
Metals ...	626
This items includes machinery for tea-gardens.	
Oilseeds ...	370
Ordinary fluctuation.	
Railway plant ...	6,454
For repairs, renewals, and maintenance.	
Salt ...	2,693
A portion of this was for hide-curing purposes.	
Sugar ...	642
An improved market following a protracted period of depression.	
Firewood ...	767
From the Southern Section for consumption in Calcutta.	
Tobacco ...	712
From the Northern Section principally.	
Hay, straw and woolloo ...	411
From the Southern Section.	

DECREASES.

	Tons.
Rice ...	6,683
Due to failure of crop in Southern Section, and a short crop in Northern Bengal.	

Calcutta, the 29th April 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	281,649	3,01,585 4 0	27,21,008 20	6,27,782 4 0	16,553 15 0	9,45,921 7 0	65,025	96,080½	161,105½
Or per mile of railway	......	199 3 8	.....	414 11 6	10 15 0	624 14 2	......	......	......
For previous 15 weeks of half-year	3,895,017	45,17,933 12 0	4,14,51,813 30	90,53,536 1 4	2,37,632 8 8	1,38,09,102 6 0	987,379½	1,432,748½	2,420,128
Total for 16 weeks ...	4,176,666	48,19,519 0 0	4,41,72,822 10	96,81,318 5 4	2,54,186 7 8	1,47,55,023 13 0	1,052,404½	1,528,829	2,581,233½
Comparison.									
Total for corresponding week of previous year	276,381½	3,02,787 2 1	29,93,524 0	7,24,148 11 0	18,008 8 0	10,44,944 5 1	65,707	108,887	174,594
Per mile of railway corresponding week of previous year	... ..	200 0 5	......	478 6 1	11 14 4	690 4 10	......	......	......
Total to corresponding date of previous year	4,279,629	49,85,693 0 5	4,54,44,060 20	1,05,87,249 8 10	3,60,140 15 11	1,59,33,083 9 2	1,059,689	1,684,533	2,744,222

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,44,944	690	1,513¾	9,45,921	625	1,513¾	29,59,427	652	1,513¾	26,97,917	594	......	2,61,510

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	13,075	6,594 10 0	42,484 20	3,222 6 0	63 4 0	9,880 4 0	1,694	700	2,394
Or per mile of railway	229	115 4 8	742 30	56 5 4	1 1 8	172 11 8	......	......	......
For previous 15 weeks of half-year	211,030	1,16,311 10 0	5,42,857 10	32,613 3 0	592 2 10	1,49,516 15 10	28,449¾	8,236	36,685¾
Total for 16 weeks ...	224,105	1,22,906 4 0	5,85,341 30	35,835 9 0	655 6 10	1,59,397 3 10	30,143¾	8,936	39,079¾
Comparison.									
Total for corresponding week of previous year . . .	13,517	6,447 9 4	88,060 30	4,873 6 0	21 2 0	11,342 1 4	1,515	1,112	2,627
Per mile of railway corresponding week of previous year ...	236	112 11 6	1,539 30	85 3 2	0 5 11	198 4 7	......	... .	......
Total to corresponding date of previous year	239,150	1,28,116 1 0	6,31,143 10	41,533 3 0	716 10 6	1,70,365 14 6	28,741	10,714	39,455

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,342	198	57½	9,880	173	57½	31,330	183	57½	32,070	187	740	......

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,123	530 9 0	16,803 10	382 0 0	10 0 0	922 9 0	337½	156	493½
Or per mile of railway	......	44 3 5	......	31 13 4	0 13 4	76 14 1	......	......	.....
For previous 15 weeks of half-year	41,172	6,949 9 0	2,73,392 10	6,276 0 0	144 1 8	13,360 10 8	5,207½	2,054½	7,261½
Total for 16 weeks ...	44,295	7,480 2 0	2,90,195 20	6,658 0 0	154 1 8	14,292 3 8	5,544½	2,210½	7,755
Comparison.									
Total for corresponding week of previous year	3,891	660 0 0	26,537 10	707 7 0	6 12 0	1,374 3 0	271	222	493
Per mile of railway corresponding week of previous year .	......	55 0 0	......	58 15 3	0 9 0	114 8 3	......	......	......
Total to corresponding date of previous year	47,615	8,080 10 6	3,49,221 30	7,469 11 0	162 1 9	15,712 7 3	5,301	2,587	7,888

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,374	115	12	923	77	12	3,238	90	12	2,735	76	. ...	503

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P.			
Total traffic for the week ...	20,761	5,281 14 0	7,646 10	298 10 0	6 4 0	5,586 12 0	927	63	9
Or per mile of railway	.	237 6 2	... ..	13 6 9	0 4 6	251 1 5	.....	.....	.....
For previous 15 weeks of half-year	349,981	92,827 14 0	1,43,776 0	5,138 5 0	98 11 10	94,064 14 10	13,846	947	14,793
Total for 16 weeks ...	370,742	98,109 12 0	1,51,422 10	5,436 15 0	104 15 10	1,03,651 10 10	14,773	1,010	15,783
Comparison.									
Total for corresponding week of previous year	21,514	5,020 14 0	7,193 30	305 11 0	6 9 0	5,933 2 0	920	48	968
Per mile of railway corresponding week of previous year .	... .	252 10 0	. .	13 11 10	0 4 8	266 10 6	......	......	... .
Total to corresponding date of previous year	369,194½	97,913 14 11	1,37,223 0	5,013 10 0	114 6 6	1,03,041 15 5	14,654	1,274	15,928

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,933	267	22½	5,587	251	22½	27,188	407	22½	23 873	358	...	3,315

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 13th April 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	132,170	65,690 0 0	4,77,086 0	70,950 0 0	12,430 0 0	1,48,980 0 0	21,269	23,066	48,33
Or per mile of railway ..	196	97 0	710 0	105 0 0	†4 0 0	206 0 0	......	... ..	. .
For previous 14 weeks of half-year	2,088,496	11,06,250 0 0	70,93,508 0	12,11,021 0 0	2,41,110 0 0	*25,58,381 0 0	299,379	344,547	643,92
Total for 15 weeks ..	2,220,666	11,71,850 0 0	75,71,474 0	12,81,971 0 0	2,53,540 0 0	27,07,361 0 0	320,648	366,613	687,261
COMPARISON.									
Total for corresponding week of previous year	118,555	54,311 0 0	4,07,132 0	58,875 0 0	11,862 0 0	1,25,048 0 0	21,289	22,793	44,082
Per mile of railway corresponding period of previous year	173	81 0 0	605 0	87 0 0	†4 0 0	172 0 0	.. ..	... ..	......
Total to corresponding date of previous year	2,227,702	11,31,283 0 0	82,40,338 0	11,79,982 0 0	2,41,481 0 0	25,52,746 0 0	331,170	370,832	702,002

* Audited up to week ending 9th March 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1887 to 14th April 1888.			Total receipts from 1st April 1888 to 13th April 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,25,048	186	673	1,48,980	222	673	2,65,924	198	673	2,96,580	220	30,656	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 13th April 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,770	8,530 0 0	44,660 0	3,030 0 0	60 0 0	11,620 0 0	3,597	2,075	5,672
Or per mile of railway .	190	68 0 0	357 0	24 0 0	1 0 0	93 0 0	......	... ..	... .
For previous 14 weeks of half-year	†396,106	1,43,423 0 0	†7,85,542 0	42,670 0 0	4,370 0 0	*1,90,463 0 0	49,418	27,475	76,893
Total for 15 weeks ...	419,876	1,51,953 0 0	8,30,202 0	45,700 0 0	4,430 0 0	2,02,083 0 0	53,015	29,550	82,565
COMPARISON.									
Total for corresponding week of previous year .	23,285	7,030 0 0	58,551 0	3,416 0 0	97 0 0	10,543 0 0	3,419	2,031	5,450
Per mile of railway corresponding period of previous year .	186	56 0 0	428 0	27 0 0	1 0 0	84 0 0	......	......	......
Total to corresponding date of previous year	396,742	1,35,310 0 0	8,08,888 0	50,016 0 0	3,636 0 0	1,88,962 0 0	50,328	29,753	80,081

* Audited up to week ending 9th March 1889.
† Ditto ditto 16th February 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1887 to 14th April 1888.			Total receipts from 1st April 1888 to 13th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
	10,543	84	125	11,620	93	125	22,216	89	125	4,3	97	2,150	......

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th April 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	17,805	5,600 0 0	5,940 0	510 0 0	180 0 0	6,290 0 0	2,502	602	3,104
Or per mile of railway	201	65 0 0	69 0	6 0 0	2 0 0	73 0 0	... ..	... .	.
For previous 14 weeks of half-year	204,700	68,027 0 0	1,93,480 0	15,293 0 0	2,679 0 0	*85,099 0 0	33,346	9,256	42,602
Total for 15 weeks ..	222,005	73,627 0 0	1,99,420 0	15,803 0 0	2,859 0 0	92,289 0 0	35,848	9,858	45,706
Comparison									
Total for corresponding week of previous year	13,881	4,248 0 0	4,558 0	750 0 0	190 0 0	5,188 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year	161	49 0 0	53 0	9 0 0	2 0 0	60 0 0	. ....	.. ..	
Total to corresponding date of previous year	209,172	65,093 0 0	1,86,908 0	14,000 0 0	2,781 0 0	81,874 0 0	37,309	9,251	46,560

* Audited up to week ending 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1888 to 7th April 1888.			Total receipts from 1st April 1888 to 13th April 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,188	60	86	6,290	73	86	10,214	59	86	10,598	62	384	..

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 13th April 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week	2,400	820 0 0	24,070 0	1,800 0 0	20 0 0	2,640 0 0	532	532	1,064
Or per mile of railway ..	63	22 0 0	633 0	47 0 0	1 0 0	70 0 0		.. ...	
For previous 14 weeks of half-year	39,190	16,003 0 0	3,63,090 0	24,110 0 0	2,479 0 0	*42,592 0 0	7,320	7,320	14,640
Total for 15 weeks ...	41,590	16,823 0 0	3,88,060 0	25,910 0 0	2,499 0 0	45,232 0 0	7,852	7,852	15,704
Comparison.									
Total for corresponding week of previous year	2,884	956 0 0	30,835 0	1,948 0 0	109 0 0	3,013 0 0	546	546	1,092
Per mile of railway corresponding period of previous year .	74	25 0 0	791 0	50 0 0	2 0 0	77 0 0	......	...	...
Total to corresponding date of previous year	46,327	15,949 0 0	4,07,871 0	30,231 0 0	747 0 0	46,927 0 0	8,190	8,190	16,380

* Audited up to week ending 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 14th April 1888.			Receipts for week ending 13th April 1889.			Total receipts from 1st April 1887 to 14th April 1888.			Total receipts from 1st April 1888 to 13th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
39	3,013	77	38	2,640	70	39	6,580	84	38	5,417	71	..	1,163

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 20th April 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,998	1,055 0 0	5,500 0	407 0 0	16 0 0	1,478 0 0	509	2,521	763
Or per mile of railway .. .	110	38 0 0	202 0	15 0 0	1 0 0	54 0 0	......	......	......
For previous 14 weeks of half-year	51,432	18,995 0 0	1,83,117 0	10,797 0 0	230 0 0	30,022 0 0	7,490	7,249	14,739
Total for 15 weeks ...	54 450	20,050 0 0	1,88,617 0	11,204 0 0	246 0 0	31,500 0 0	7,999	7,503	15,502
COMPARISON.									
Total for corresponding week of previous year	3,131	1,152 0 0	5,727 0	430 0 0	11 0 0	1,593 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	115	42 0 0	210 0	16 0 0	......	58 0 0	......	......	......
Total to corresponding date of previous year	52,687	19,330 0 0	2,69,045 0	14,925 0 0	347 0 0	34,602 0 0	8,144	7,756	15,900

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,593	58	27½	1,478	54	27½	5,575	68	27½	4,650	57	......	925

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 20th April 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	47,457	17,905 0 0	1,56,387 0	14,597 0 0	3,455 0 0	35,957 0 0	5,173	4,013	10,086
Or per mile of railway	174	66 0 0	573 0	53 0 0	8 0 0	122 0 0*	......	......	... .
For previous 14 weeks of half-year	630,392	2,39,897 0 0	20,34,210 0	1,92,315 0 0	45,720 0 0	4,77,932 0 0	82,372	80,263	162,635
Total for 15 weeks ...	677,849	2,57,802 0 0	21,90,597 0	2,06,912 0 0	49,175 0 0	5,13,889 0 0	87,545	85,176	172,721
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	49,483	17,948 0 0	1,65,506 0	19,340 0 0	7,084 0 0	44,371 0 0	5,900	6,170	12,070
Per mile of railway corresponding week of previous year ...	191	69 0 0	630 0	75 0 0	15 0 0	159 0 0*	......	......	......
Total to corresponding date of previous year	689,707	2,72,156 0 0	31,31,920 0	3,47,182 0 0	50,640 0 0	6,69,978 0 0	100,189	128,402	228,591

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	44,371	171	273	35,957	132	259	1,12,197	144	273	1,06,946	131	....	5,251

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 6th April 1889	8 689
Corresponding week last year	9,672
Decrease	983
Receipts from 1st January to 6th April 1889	1,11,077
From 1st January to 7th April 1888	1,21,487
Decrease	10,410
	Miles.
Miles open week ending 6th April 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 6th April 1889	170 6 0
Corresponding week last year	189 10 3
Decrease	19 4 3

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 13th April 1889	10,021
Corresponding week last year	9,360
Increase	661
Receipts from 1st January to 13th April 1889	1,21,098
From 1st January to 14th April 1888	1,30,847
Decrease	9,749
	Miles.
Miles open week ending 13th April 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 13th April 1889	196 7 10
Corresponding week last year	183 8 6
Increase	12 15 4

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 1st May 1889.

REGISTERED No. 29.

No. 19 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MAY 8, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT

ROAD CESS.

No. 1790R.C.

Dated Calcutta, the 30th April 1889.

READ—

Letter from the Accountant-General, Bengal, No. 28LF, dated the 9th April 1889, submitting an abstract of the receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 31st December 1888.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees, for the third quarter of the year 1888-89, be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette.*

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong and Chota Nagpore Divisions; to the Superintending Engineers of the Eastern and Western Circles; and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal,

P. W. Dept.

DISTRICT

Statement of Receipts and Expenditure of the several District Road

RECE

Districts.	Balance in treasury on 1st October 1888.	Provincial Rates. Cess on lands.	Provincial Rates. Cess on mines and railways.	Provincial Rates. Cess on houses.	Provincial Rates. One per cent. road cess.	Provincial Rates. Total.	Interest on arrears of road cess.	Public Works. Road tolls.	Public Works. Ferry tolls.	Public Works. Total.	Irrigation. Canal tolls.	Miscel. Rent of serais and staging bungalows.	Miscel. Fees, fines and forfeitures.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Cess Districts.													
Darjeeling .	2,491 4 3	907 13 10	50 14 4		......	958 12 2	0 6 7	... ..	... ..	....	.... .	.....	....
Hazaribagh	25,613 9 8	9,499 5 3	2,074 0 0		. . ..	11,573 5 3	10 9 6	.... .	.. ..	..	. ...	110 8 0	4 4 0
Lohardugga	20,171 4 1	15,288 11 7			......	15,288 11 7	24 6 3	... .	... .	... .	. . .	6 8 0	57 8 0
Manbhoom ...	22,458 4 11	9,684 0 11	1,739 3 10	...	.... .	11,423 4 9	120 3 8	......	. . .	. ..	.	600 8 9	...C.
Total ...	70,734 6 11	35,379 15 7	3,864 2 2	......	......	39,244 1 9	155 10 0	......	.. .	......	......	717 8 9	61 12 0
Non cess Districts.													
Chittagong Hill Tracts	17,817 3 3			... .	.	......	..	...	. .	. .	..	...	....
Sonthal Pergunnahs	28,857 1 9			...	. ....		..		..	. .	...	123 6 0	16 0 0
Singbhoom ...	10,232 2 1	1,240 11 9		..	...	1,240 11 9	..	... .	...	. .	..	7 0 0	.....
Total	56,906 7 1	1,240 11 9		.	... .	1,240 11 9	......	. .	...		....	130 6 0	16 0 0
GRAND TOTAL ..	1,27,640 14 0	36,620 11 4	3,864 2 2	. . .	. ....	40,484 13 6	155 10 0	.....	. ....	....	....	847 14 9	77 12 0

EXPEN

Districts.	Refunds. Cess.	Refunds. Other receipts.	Refunds. Total.	Provincial Rates. Establishment and contingencies of office of collection.	Administration. Establishment and contingencies of Committee's office.	Administration. Percentage cost of establishment for offices of account and control.	Administration. Total.	Stationery. Stationery and printing.	Public Works. Original works.	Public Works. Repairs.	Public Works. Establishment.	Public Works. Tools and plant.	Public Works. Toll and ferry establishment and contingencies.
	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
Cess Districts.													
Darjeeling ...	......	... ..	......	265 6 0	315 8 0	235 5 5	550 13 5	1 4 0	......	1,650 10 8	921 0 0	......	...
Hazaribagh ...	.....	......	.. .	236 6 8	290 15 3	429 8 11	720 8 2	86 7 0	......	6,801 7 2	1,939 11 9	301 9 3	...
Lohardugga ..	......	......	.. ...	528 8 0	134 11 6	737 7 3	872 2 9	12 9 6	121 2 9	8,411 6 5	2,333 0 0	70 2 0	...
Manbhoom ...	... ..	......	....	236 12 4	373 8 7	351 8 7	725 1 2	56 15 3	708 11 0	8,869 9 6	1,647 5 4	......	...
Total ...	......	......	.....	1,267 1 0	1,114 11 4	1,753 14 2	2,868 9 6	157 3 0	829 13 9	25,733 1 0	6,841 1 1	371 11 3	...
Non-cess Districts.													
Chittagong Hill Tracts ...	......	.... .	......	......	2 0 0	.. .	2 0 0	42 2 6	2,605 7 9	1,750 0 0	1,183 4 11	375 6 0	...
Sonthal Pergunnahs	. ....	... ..	. ..	.. ...	263 8 0	...	263 8 0	76 4 3	445 4 3	6,847 3 9	1,706 12 9	56 11 0	...
Singbhoom ...	. ....	......	. . ..	.... .	147 7 9	......	147 7 9	71 9 11	297 3 9	846 10 8	501 0 0	250 12 0	...
Tota ...	......	.. ..	......	......	412 15 9	......	412 15 9	190 0 8	3,437 15 9	9,449 14 5	3,451 1 8	682 13 0	...
GRAND TOTAL ..	......	......	......	1,267 1 0	1,527 11 1	1,753 14 2	3,281 9 8	347 4 5	4,267 13 6	35,183 0 2	10,292 2 9	1,054 8 3	...

FORT WILLIAM,
The 12th March 1889.

ROAD FUND.

Committees for the third quarter of the year 1888-89 *ending* 31*st December* 1888.

IPTS.

...LANEOUS.		Grant from Government.	SUSPENSE ACCOUNTS.			Total receipts.	Balance of imprest in hands of Engineers and others, decreased.	Balance of uncashed cheques, increased.	Total receipts including balance.	Outlay.	Balance in treasury on 31st December 1888.
Miscellaneous.	Total.		Advances.	Deposits.	Total.						
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
500 0 4	500 0 4	521 7 10	1,508 12 10	......	1,508 12 10	3,484 7 9	......	483 10 3	6,459 6 3	5,385 15 2	1,073 7 1
	114 12 0	308 14 4	1,328 5 8		1,328 5 8	13,333 14 9	.. ...	... .	38,947 8 5	14,062 8 1	24,885 0 4
3 0 0	67 0 0	......	180 12 7	793 13 3	974 9 10	16,354 11 8	. ..	799 11 8	37,325 11 5	14,197 5 5	23,128 6 0
......	600 8 9	... ..	95 3 6	200 0 0	295 3 6	12,439 4 8	... ..	. ....	34,897 9 7	12,614 13 4	22,282 12 3
503 0 4	1,282 5 1	828 6 2	3,108 2 7	993 13 3	4,101 15 10	45,612 6 10	......	1,283 5 11	1,17,630 3 8	46,260 10 0	71,369 9 8
......	... .	. ..	564 0 0	... ..	564 0 0	564 0 0	......	1,457 8 0	19,838 11 3	7,554 5 2	12,284 6 1
......	139 6 0	.	322 1 0	50 0 0	372 1 0	511 7 0	......	254 4 0	20,622 12 9	9,780 0 0	10,842 12 9
......	7 0 0	......	277 0 0	30 0 0	307 0 0	1,554 11 9	... ..	28 10 9	11,815 8 7	2,761 10 1	9,053 14 6
......	146 6 0	......	1,163 1 0	80 0 0	1,243 1 0	2,630 2 9	.... .	1,740 6 9	61,277 0 7	20,095 15 3	41,181 1 4
503 0 4	1,428 11 1	828 6 2	4,271 3 7	1,073 13 3	5,345 0 10	48,242 9 7	. ....	3,023 12 8	1,78,907 4 3	66,356 9 3	1,12,550 11 0

DITURE.

Establishment of Divisional Superintendent of Works.	Total.	IRRIGATION.	MISCELLANEOUS.				Contribution to Provincial Government.	SUSPENSE ACCOUNT.			Total expenditure.	Balance of imprest in hands of Engineers and others increased.	Balance of uncashed cheques decreased.	Total outlay.
		Canal tolls establishment and contingencies.	Staging bungalow establishment and contingencies.	Staging bungalow, petty construction and repairs.	Miscellaneous.	Total.		Advances.	Deposits.	Total.				
Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.
......	2,571 10 8	......	......	.....	.... .	. . .		1,906 13 1	.....	1,906 13 1	5,385 15 2	... .	...	5,385 15 2
......	9,042 12 2	..	18 0 0	...	......	18 0 0	...	1,320 5 2	27 0 0	1,347 5 2	11,451 7 2	.	2,611 0 11	14,062 8 1
... ..	10,935 11 2	. ....	46 8 0	25 0 0	26 14 0	98 6 0	...	1,750 0 0	......	1,750 0 0	14,197 5 5	.	..	14,197 5 5
.... .	11,225 9 10	......	. ....	6 12 0	. . .	6 12 0	.	111 0 0	250 0 0	361 0 0	12,612 2 7	2 10 9		12,614 13 4
......	33,775 11 10	......	64 8 0	31 12 0	26 14 0	123 2 0	.	5,178 2 3	277 0 0	5,455 2 3	43,646 14 4	2 10 9	2,611 0 11	46,260 10 0
... ..	6,010 2 8	......	... .	... ..	... .	. .	..	800 0 0		800 0 0	6,854 5 2	700 0 0	......	7,554 5 2
......	9,115 15 9	......	73 8 0	......		73 8 0	.	250 12 0	.	250 12 0	9,780 0 0	......	.	9,780 0 0
......	1,895 10 5	......	7 0 0	. ..	118 14 0	125 14 0	...	520 0 0	...	520 0 0	2,760 10 1	....	1 0 0	2,761 10 1
......	17,021 12 10	......	80 8 0	...	118 14 0	199 6 0	...	1,570 12 0	....	1,570 12 0	19,394 15 3	700 0 0	1 0 0	20,095 15 3
.. ..	50,797 8 8	......	145 0 0	31 12 0	145 12 0	322 8 0	.	6,748 14 3	277 0 0	7,025 14 3	63,041 13 7	702 10 9	2,612 0 11	66,356 9 3

E. T. ATKINSON,

Accountant-General, Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 4th May 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.	*Western Districts.*		
Burdwan Divn.			
1	Burdwan May 4, '89	Nil	Heat much above the month's average. Rain wanted. Price of common rice ranges from 13 seers per rupee at Culna to 16 seers at Burdwan, the average for the district being about 15½ seers. Brisk sales of potatoes reported in Culna. A small outbreak of cattle-pox in Cutwa sub-division.
2	Bankoora „ 5, '89	Nil	Weather—excessively hot. Rain is badly wanted everywhere for ploughing, which is reported to have ceased in the Sudder sub-division, as well as for the growth of the standing crops. Prices of common rice 17½ seers per rupee at Sudder and 17¼ seers at Bissenpore.
3	Birbhum „ 4, '89	Nil	Weather—very hot, no signs of rain. No crops on the ground. The continued drought postpones ploughing for the next crops. Price of common rice rising. It is 13½ seers per rupee at head-quarters and about the same at Rampore Haut, the average for the district being 15 seers against 17 seers in the previous fortnight.
4	Midnapur „ 4, '89	·03	Weather—very hot. No rain. Ploughing has commenced in places, but rain is wanted for it generally. Mulberry is suffering for want of rain. Cocoons are stated to have been affected in Ghatal by the heat, the price having declined from Rs. 26-27 to Rs 24-25 a maund. Prices of rice are as follows:— Rs. A. P. Midnapore ... 2 7 0 per maund. Ghatal ... 2 8 0 per maund. Contai ... 2 8 0 per maund. Tamlook ... 2 12 0 per maund. Prices have risen in almost all thanas, and in some considerably.
5	Hugli „ 4, '89	Nil	Weather—hot with high wind from the south-west. Rain needed for ploughing and sowing of *aus* and jute Price of common rice at Jehanabad Rs. 2-8 per maund, and at Hooghly from Rs 3-8 to Rs. 3-12 per maund.
	Howrah „ 4, '89	Nil	Weather—hot. Strong winds. Rain badly wanted for jute and *amun*. *Amun* is being sown in low lands. Price of common rice at Sudder 12 seers per rupee and at Ulubariya 13¼ seers per rupee
	Central Districts.		
Presidency Divn.			
6	24-Perghs. May 4, '89	Nil	Weather—very hot, dry and sultry, with occasional clouds and high winds. Ploughing is progressing, but rain is much wanted Prices of food-grains vary from 12¼ seers to 15 seers per rupee.
7	Nuddea „ 4, '89 Kooshtea ...	Nil 0 11	Weather—hot with strong south wind. Rain much wanted everywhere. Ploughing going on. Sugarcane and indigo doing well. Sowing of early rice commenced in parts of Chooadanga and Meherpore sub-divisions.
8	Khoolna „ 4, '89	Nil	Weather—hot with high wind. Good rain has fallen in the Bagirhat sub-division, but none in Satkhira Ploughing going on, but retarded in the western parts for want of rain *Boro* and *til* are being harvested in the Bagirhat and Khoolna sub-divisions; outturn good in Bagirhat, below the average in Khoolna.
9	Jessore „ 4, '89 Jhenidah .. Magura Narail ..	Nil 0·75 2·06 0·11	Weather—very hot with strong south-west wind in the evening. Sowing of *aus* and jute at a standstill in the Sudder and Bongong sub-divisions for want of rain. Prices of rice rising.
10	Moorshedabad „ 4, '89	Nil	Fine dry weather with passing clouds and duststorms. Abnormally hot south-west winds. Very little *aus* rice sown on account of want of rain. *Boro* paddy is being harvested. Price of common rice averages 14 seers the rupee. The price has been steadily rising during the past two months.
Rajshahye Divn.			
11	Dinagepur „ 4, '89	Nil	Weather—unusually hot with west wind. Jute, early rice and sugarcane are suffering from want of rain.
12	Rajshahye „ 4, '89	Nil	Weather—very hot. Rain much wanted. Price of rice has gone up; now 14¼ seers per rupee.
13	Rungpur „ 4, '89	0·11	Weather—still unsettled. Sultry with occasional gales of wind from the north-east. The young jute is coming up well and paddy is flourishing. Sowings of both are completed. More rain is, however, wanted. Measures are being taken throughout the district to improve the water-supply, which is very defective and the cause of a good deal of disease.
14	Bogra „ 4, '89 Sherpore . Nowkhilla	0 03 0 86 1·14	Weather—very hot, with variable winds, often very high; in the middle of the district excessively dry. The long continued drought in the middle and west of the district is serious. The seedlings are withering, the grass is burnt up, and no plough can be worked. Sowing of jute and paddy still going on elsewhere. In the south and east, where there has been some rain, prospects are better. Common rice selling at 19 seers a rupee.
15	Pubna „ 4, '89	0·11	Weather—hot. Slight rain in some parts. More rain wanted for sugarcane, jute and *boro dhan*. *Aus* sowings not doing well.
16	Darjeeling „ 4, '89	0 86	Weather—during week has been decidedly boisterous. Rain is wanted in Siliguri division. Agricultural prospects are fair.
17	Julpigoree „ 4, '89	Nil	Weather—very hot; cloudy at intervals with high winds. *Bhadoi* paddy and jute have been sown to the extent of about ten annas. Rain urgently wanted. Price of common rice 17 seers a rupee.
	Eastern Districts.		
Dacca Divn.			
18	Dacca May 4, '89	0·05	Weather—hot and cloudy with strong wind; rain with large hailstones fell in Naraingunge sub-division. Cultivation of jute, *til* and paddy crops going on. The crops already sown have been benefited by the recent rain. *Boro* paddy is being harvested, but owing to want of rain in due time has suffered to some extent.
19	Furreedpur „ 4, '89	1·15	Weather—hot with high wind. A little rain has fallen and sowing of paddy is in progress. More rain wanted. Price of common rice has risen to 12 seers per rupee.
20	Backergunge „ 4, '89	1·11	High wind with occasional showers. Ploughing for *aus dhan* progressing. More rain wanted.
21	Mymensingh „ 4, '89	0·97	Weather—cloudy and stormy. State and prospects of crops generally good, excepting in Tangail sub-division. Harvesting of *boro* rice is now completed; the outturn is about ten annas.

	No.	District and date of return.	Rainfall at sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts—concld.		
CHITTAGONG DIVN.	22	Chittagong May 4, '89	3·67	Weather—hot. State of miscellaneous crops fair. Lands are being prepared for *aus*. It is being sown in some places. A fair quantity of rain has fallen since last Saturday, which will do much good.
	23	Noakholly ...	......	Report not received.
	24	Tipperah ...	....	Ditto.
	25	Chittagong Hill Tracts. ...	......	Ditto.
		Hill Tipperah ...	.....	Ditto.
BEHAR.				
PATNA DIVN.	26	Patna May 4, '89	Nil	Weather—hot and sultry. Fields are being prepared for *bhadoi* crops. Threshing and winnowing of *rubbi* crops still continue. *Boro dhan* is being reaped. Prices of food-grains rising.
	27	Gya „ 4, '89	Nil	Weather—hot and fair. Threshing of *rubbi* crops almost finished. Opium weighments going on at Sudder Sub-Agency. Prices of food-grains rising high.
	28	Shahabad „ 4, '89	Nil	Weather—hot with west wind. Hardly any crop on ground but sugarcane. Prices rising on account of demand for export.
	29	Durbhunga „ 4, '89	Nil	Dry weather continues; excessive heat during the day. *Cheena*, *mung* and rice on low-lying lands are suffering very much from want of rain. Preparation of lands for *bhadoi* is not progressing for want of moisture. Mango crop considerably injured by west winds. Common rice is selling at 12¼ seers per rupee.
	30	Mozufferpur „ 4, '89	Nil	Weather—hot with strong winds. Rain urgently required for ploughing. *Cheena* crop much withered.
	31	Sarun „ 4, '89	Nil	Weather—seasonable. *Cheena* doing well. Opium weighments over. Rain wanted for indigo.
	32	Chumparun „ 4, '89	Nil	Weather—hot; nights and mornings cool. Rain wanted for indigo, *mung* and paddy. *Cheena* withering and dying. Prices have risen and tend towards a further rise. Pressure in the affected area increasing; its effect has begun to reach other parts in the vicinity.
BHAGULPORE DIVN.	33	Monghyr „ 4, '89	Nil	Weather—hot and sultry with west and east winds alternately. No crops on the ground, except *cheena* and sugarcane; the latter is being irrigated. Rain is now wanted for ploughing of fields for the next *bhadoi* crops. Prices of food-grains rising.
	34	Bhagulpur „ 4, '89	Nil	Weather—very hot. In the north rain much wanted for low-land rice and *mung*. The latter is withering. In the south little but sugarcane and indigo on the ground. Rain wanted for ploughing. Prices rising everywhere.
	35	Purneah „ 4, '89	Nil	Weather—dry and very hot. No crops to report. Rain very much wanted to enable agricultural operations to proceed.
	36	Maldah „ 4, '89	Nil	Weather—very hot and dry. Strong changeable winds. Harvesting of *boro* paddy continues in some places; in others the crop is being watered by artificial means. Sowings of *bhadoi* and other rice retarded for want of rain. About 14 annas of jute sown, but the little plants are withering for want of rain. Indigo much burnt up. Price of rice rising.
	37	Sonthal Perghs. „ 4, '89	Nil	Weather—intensely hot with west winds. No rain. Sugarcane and indigo suffering for want of rain. Prices rising in Pakour sub-division, but stationary elsewhere.
ORISSA.				
ORISSA DIVN.	38	Cuttack „ 4, '89	Nil	Weather—sultry. For want of rain no further progress has been made in ploughing operations than what was noted in previous reports.
	39	Pooree	... ..	Report not received.
	40	Balasore „ 3, '89	Nil	Weather—very hot. Rain urgently needed in every part of the district. The want of it is causing many deaths from disease, and is seriously hindering cultivation. Price of rice rising.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
CHOTA NAGPORE DIVN.	41	Hazaribagh May 4, '89	Nil	Weather—intensely hot. Sugarcane doing well. No other crops. Prices stationary.
	42	Lohardugga „ 4, '89	0·03	Weather—hot. *Tewa dhan* thriving in the head-quarters sub-division. Sugarcane planted in the Palamow sub-division promises well. No fluctuation in the prices of food-grains
		Palamow ..	0·17	
	43	Singbhoom „ 4, '89	Nil	Weather—very hot. Sugarcane and *boro dhan* doing well. Prices stationary.
	44	Manbhoom „ 4, '89	Nil	Weather—intensely hot. No crops on the ground, except sugarcane. Great want of water in Burrabhoom, which has injured indigo and sugarcane

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 7th May 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	13 2	14 8	13 1	No sale		40 0	12 6	13 14	17 4	15 3	16 2	22 8	...	...	...
2	Bankoora ...	14 0	15 0	16 0	18 0	20 0	20 0	15 0	16 0	19 8	17 8	18 0	21 8	.	...	...
3	Beerbhoom ...	14 4	15 0	16 4	...	...	...	12 0	13 8	16 8	13 8	16 8	21 12	...	...	...
4	Midnapore ...	10 0	10 0	17 0	40 0	40 0	40 0	12 0	16 0	20 0	16 8	18 0	26 0	...	..	...
5	Hooghly ...	18 0	13 0	14 0	...	...	...	10 0	10 0	10 0	13 0	13 0	17 8	...	...	...
	Howrah ..	Not available.			...	...	...	10 0	11 0	14 0	13 8	14 8	19 0	..	...	...
	Central Districts.															
	Calcutta ...	12 14	13 2	14 2	17 2	18 12	24 0	9 3	9 9	11 15	13 1	14 4	18 1	16 10	17 2	16 6
6	24-Pergunnahs	13 0	13 8	16 0	16 0	20 0	22 8	8 0	8 0	8 0	13 8	13 8	19 0	...	...	...
7	Nuddea ..	14 15	16 0	16 6	20 0	22 13	26 10½	12 4	13 5¼	14 8	16 0	15 8	19 3½	...	..	...
8	Khoolna .	...	...	...	.	...	.	12 0	13 4	18 0	13 0	14 0	21 0	...	...	...
9	Jessore ..	11 0	11 0	16 0	...	...	.	11 0	11 0	18 0	15 0	15 0	24 8	...		...
10	Moorshedabad	15 0	16 0	16 0	...	.	...	11 0	12 0	17 8	14 0	14 8	22 0	...	.	...
11	Dinagepore .	12 0	13 0	16 0	...	12 0	...	13 0	15 8	21 4	15 8	19 4	25 0	...	...	...
12	Rajshahye ...	16 8	16 8	21 0	24 0	30 0	45 0	12 0	12 12	18 0	13 14	14 4	21 0	...	...	...
13	Rungpore ..	14 8	14 8	14 8	...	...	...	10 8	10 8	13 4	16 0	16 0	20 0	...	...	...
14	Bogra ...	15 0	17 10	16 14	...	...	...	13 8	13 14	15 0	18 12	18 12	25 8	...	...	...
15	Pubna ...	16 14	18 0	20 0	..	.	.	7 8	7 12	8 0	15 12	17 4	21 12	...	...	...
16	Darjeeling ..	10 0	6 0	10 0	6 0	10 0	11 0	6 0	6 0	5 0	12 0	13 0	14 0	...	...	...
17	Julpigoree ..	10 0	9 0	12 0	16 0	16 0	20 0	8 0	8 0	14 0	17 0	16 0	21 0	...	...	...
	Eastern Districts.															
18	Dacca ...	15 8	15 8	19 0	26 0	26 0	38 0	13 4	14 4	18 0	15 4	16 0	21 0	...	...	...
19	Furreedpore ...	20 0	20 0	24 0	25 0	25 0	40 0	9 0	10 0	15 0	12 0	16 0	23 0	...	...	...
20	Backergunge ...	.	...	..	...	...	...	10 8	10 8	15 8	12 0	12 0	20 8	...	...	...
21	Mymensingh ..	10 8	10 0	12 0	..	..	...	13 0	13 0	14 0	18 0	17 0	19 0	...	...	...

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9 seers 15 chittacks, and Raneegunge 10$\frac{6}{16}$ seers.
B At Rampore Haut retail price of salt 10⅜ seers per rupee
C In sub-divisions retail prices of salt per rupee are : Ghatal 10¼ seers, Tumlook 8 seers, and Contai 9 seers.
C1 In sub-divisions retail prices of salt per rupee are :—Baraset and Bussirhat 9 seers, Diamond Harbour (at Kulpihat) 8 seers, Barrackpore 9½ seers, and Dum-Dum 10 seers
D In sub-divisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10½ seers, Choosdanga 10 seers, and Ranaghat 10 seers
E In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
F In sub-divisions retail prices of salt per rupee are : – Jhenida 9 seers, Magura 10 seers, Narail 9⅜ seers, and Bongong 10 seers.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*) Present return.	Next preceding return.	Corresponding return of last year.	Marua or Ragi. (*Eleusine Coracana.*) Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
12 3	12 4	14 8	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...		...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
	...	...	...	...	...
...	...	...	12 0	12 0	14 0
	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

844a

... of the Districts of Bengal on the 30th April 1889.

Firewood. Present return.	Firewood. Next preceding return.	Firewood. Corresponding return of last year.	Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Wholesale Salt. Next preceding return.	Wholesale Salt. Corresponding return of last year.	DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
									BENGAL.
									Western Districts.
107 0	107 0	120 0	A 9 14½	10 2	10 7½	3 11 6	3 11 3	3 11 0	Burdwan.
280 0	280 0	320 0	10 0	10 0	10 8	3 15 0	3 14 0	3 11 0	Bankoora.
160 0	160 0	160 0	B 10 0	9 12	10 0	3 14 0	4 0 0	3 8 0	Beerbhoom.
160 0	160 0	120 0	C 10 4	10 4	9 0	3 14 0	3 14 0	4 2 0	Midnapore
120 0	120 0	120 0	9 0	10 8	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
100 0	100 0	100 0	10 8	10 8	9 0	3 10 6	3 10 6	3 12 0	Howrah.
									Central Districts.
99 0	98 0	95 0	10 5	10 5	10 9	3 9 5	3 9 6	3 7 10	Calcutta.
100 0	100 0	120 0	C1 10 8	10 4	10 8	3 8 9	3 10 0	3 8 0	24-Pergunnahs.
...	...	...	D 9 2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea
160 0	160 0	160 0	E 9 0	9 0	9 0	4 0 0	4 0 0	4 6 0	Khoolna.
160 0	160 0	100 0	F 9 2	9 2	8 0	4 0 0	4 0 0	4 4 0	Jessore.
200 0	200 0	200 0	G 9 0	9 0	11 12	4 0 0	4 0 0	3 6 0	Moorshedabad
160 0	160 0	160 0	9 8	9 8	9 12	3 15 0	3 15 0	4 0 0	Dinagepore
240 0	240 0	240 0	H 8 13	9 9	9 12	4 5 4	4 0 0	3 13 4	Rajshahye.
120 0	120 0	120 0	I 9 6	9 6	9 10	4 4 0	4 4 0	4 2 0	Rungpore.
96 0	96 0	90 0	9 6	8 13	9 0	4 2 8	4 4 0	4 0 0	Bogra.
200 0	200 0	200 0	J 9 2	9 2½	9 12	4 1 0	4 0 0	4 1 6	Pubna.
120 0	120 0	120 0	K 7 0	7 0	8 0	5 0 0	5 0 0	...	Darjeeling
128 0	128 0	128 0	L 9 0	9 0	9 0	4 4 0	4 4 0	...	Julpigoree.
									Eastern Districts.
120 0	120 0	120 0	M 10 0	10 0	8 8	3 14 0	3 14 0	4 4 0	Dacca.
120 0	120 0	120 0	9 0	10 0	9 0	3 15 6	3 14 0	4 5 0	Furreedpore
120 0	120 0	120 0	N 8 14	8 14	9 2	4 0 0	4 0 0	3 12 0	Backergunge.
...	...	...	O 10 0	10 0	9 8	3 15 0	...	4 2 0	Mymensingh

G In sub-divisions retail prices of salt per rupee are :—Lalbagh 9½ seers, Jungipore 10 seers, and Kandi 9 seers 14 chittacks.
H In Nattore sub-division retail price of salt 9¾ seers per rupee.
I At Goibanda retail price of salt 8 seers per rupee.
J In Serajgunge sub-division retail price of salt 10½ seers per rupee.
K At Silliguri retail price of salt 9 seers per rupee.
L At Fallacutta in Alipore sub-division retail price of salt 8 seers.
M In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8¾ seers, and Naraingunge 10¾ seers
N In sub-divisions retail prices of salt per rupee are :—Perozepore 9 seers, Bhola 8 seers, and Patuakhali 9 seers.
O In sub-divisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 9¼ seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood a

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
22	Chittagong ...	11 0	11 0	11 0	...	...	...	11 0	11 8	13 0	
23	Noakholly* ..	...	...	...	...	...	...	...	...	...	
24	Tipperah ...	12 8	12 8	12 8	...	...	...	13 8	15 8	17 8	
25	Chittagong Hill Tracts	...	...	...	...	...	...	10 0	13 5	12 4	
	Hill Tipperah ...	6 0	6 0	8 0	...	...	...	8 0	8 0	10 0	
	BEHAR.										
26	Patna ...	15 0	15 0	19 0	20 8	25 0	28 0	10 0	11 0	11 0	
27	Gya ...	15 8	16 8	17 0	21 0	25 0	26 0	8 8	9 4	10 0	1
28	Shahabad ...	14 8	16 8	18 0	20 0	23 0	27 0	8 8	9 0	9 0	1
29	Durbhunga ..	13 11	13 11	17 8	19 6¾	18 4	33 0	10 4½	9 9	13 0	1
30	Mozufferpore ..	12 8	14 0	16 0	18 0	25 0	25 0	9 0	10 0	12 0	1
1	Sarun ...	14 8	17 0	17 0	20 8	21 0	27 0	8 8	8 4	9 4	1
2	Chumparun ..	12 0	13 0	16 0	21 0	22 0	30 0	7 0	9 8	8 0	11
	Monghyr ...	16 13	18 14	18 14	22 0	24 6	33 9	12 9	12 10	14 2	18
	Bhagulpore ...	16 6	16 11	20 3	21 7	21 7	30 5	12 10	12 10	15 12	18
	Purneah ...	14 0	16 0	20 0	...	26 0	25 0	15 0	13 0	19 0	15
	Maldah ...	16 0	17 0	20 0	...	...	...	10 0	10 0	14 0	15
	Sonthal Perghs.	13 0	13 0	13 0	...	...	...	18 0	14 0	16 8	15
	ORISSA.										
	Cuttack ...	14 7	14 7	14 7	...	...	...	10 8	10 8	11 13	14
	Pooree ..	13 2	11 13	14 7	...	...	...	11 13	11 13	18 6	15
	Balasore ...	17 0	15 0	1 0	13 0	13 0	13 0	12 0	12 0	15 0	17
	CHOTA NAGPORE.										
	South-West Frontier Agency.										
	Hazaribagh ...	14 8	14 0	15 0	18 0	17 0	21 0	8 0	8 0	8 0	15
	Lohardugga ...	13 0	13 0	17 0	16 0	16 0	...	13 0	13 0	15 0	15
	Singbhoom ...	14 0	14 0	14 0	16 0	16 0	16 0	14 0	14 0	16 0	22
	Manbhoom ...	13 0	14 0	14 0	20 0	20 0	24 0	13 0	13 0	13 8	18

* Return not received.

At Cox's Bazar retail price of salt 8 seers per rupee.
In sub-divisions retail prices of salt per rupee are :—Buxar 10¼ seers, Bhabuah 9½ seers,
In Madhubani and Tajpore sub-divisions retail price of salt 10 seers per rupee.
At Hajipore retail price of salt 10 seers per rupee.

CALCUTTA,
the 7th May 1889.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.
...	...	...	...	..	...
...	...	...	...		...
.	.	...	..	.	...
...	...	...	..	..	...
...	.	...	...		..
...	...	...	...	...	...
..	..	.	.	...	...
...	...	...	...	. .	...
...	...	...	18 4¾	20 9	35 0
...		...	...	...	...
...	...	..	20 0	20 0	30 0
..	.	...	.	20 0	30 0
...	...	.	...	...	...
		..	...		.
.		..	...	...	31 0
.		...		...	...
.	..	...	..	...	...
	.		...	...	...
.	.	.	...	...	...
.	..	--	.	..	...
Not procurable			21 8	21 0	25 8
...	...	...	27 0	26 0	35 0
...	...	...	...	...	...
.	...	...	...	...	.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 3rd of May 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 27th April 1889.	Sunday, 28th April.	Monday, 29th April.	Tuesday, 30th April.	Wednesday, 1st May.	Thursday, 2nd May.	Friday, 3rd May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of April.	Average total rainfall from 1st of April.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded*	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0·94	41·34	45·58
		Sewan	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	44·44	45·10
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·36	39·25	41·80
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	43·33	39·89
		Dehree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·13	46·13	39·95
		Bhubooah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	42·22	42·74
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	44·11	41·64
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	46·34	41·39
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	36·29	?
	Gya	Aurungabad	0·07	...	...	...	...	...	...	1	0·07	0·14	0·24	55·28	43·86
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	56·01	43·90
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	51·18	41·43
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·20	40·12	41·69
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·68	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43·15	?
		Sherrghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28·58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·91	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·35	43·51	43·04
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·38	47·24	42·44
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	56·52	43·21
		Barrh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·41	59·61	40·99
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·05	?
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·16	?
	Monghyr	Begooserai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·56	51·73	41·53
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	0·60	56·93	47·94
		Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	0·58	52·50	44·74
		Gogri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	61·76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·86	56·73	43·86
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·74	44·01	42·45
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53·84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	1·48	48·72	54·13
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0·60	52·17	46·70
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0·19	0·62	65·06	50·82
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	0·59	1·29	55·21	55·93
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	1·03	54·00	52·40
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	0·34	0·76	57·93	50·08
		Mohasama	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Nunihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29·74	?
CHUTIA NAGPUR.	Hazaribagh	Pachamba (*Giridi*)	...	...	...	...	...	...	...	Nil	Nil	0·35	0·68	58·86	49·47
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	0·42	0·46	57·28	49·91
		Semtagurah	...	...	...	...	...	...	...	Nil	Nil	1·11	0·29	57·89	47·84
		Manudi Hills	...	...	...	...	...	...	...	Nil	Nil	0·47	0·14	56·54	49·96
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	64·90	63·08
		Barhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51·49	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	0·18	?	58·40	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·60	?
		Ramghar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Lohardugga	Lohardugga	0·12	...	...	...	...	...	...	1	0·12	0·88	0·15	50·22	53·70
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	0·70	0·63	51·64	54·96
		Palamow	...	...	...	...	...	...	...	Nil	Nil	0·25	0·34	53·85	44·83
		Sili	...	...	...	...	...	...	...	Nil	Nil	0·40	?	?	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Hossainabad	0·60	...	...	...	...	...	...	1	0·60	0·83	?	?	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	0·20	?	48·28	?
	Singbhoom	Chyebassa	...	...	...	...	...	...	...	Nil	Nil	1·19	0·88	42·49	54·63
		Chakradharpore	...	...	...	...	...	...	...	Nil	Nil	0·85	?	56·52	?
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	0·94	?	56·13	?
		Bunaragura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62·32	?
	Manbhoom	Purulia	...	...	...	...	...	...	...	Nil	Nil	1·20	0·94	59·45	51·98
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	0·11	0·71	38·11	47·12
		Ragunathpore	...	...	...	...	...	...	...	Nil	Nil	0·04	?	55·87	?
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	1·93	?	53·65	?
		Jhalda	...	...	...	...	...	...	...	Nil	Nil				
		Chas	...	...	...	...	...	...	...						

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA *the 7th May* 1889.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 3rd of May 1889—contd.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 27th April.	Sunday, 28th April.	Monday, 29th April.	Tuesday, 30th April.	Wednesday, 1st May.	Thursday, 2nd May.	Friday, 3rd May.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of April.	Average total rainfall from 1st of April.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.	Noakholly ..	*Gournaddi* ...	......	......	0·49	......	......	......	......				?		?
		Bauphal ...	......	......	......	......	......	......	......	Nil	Nil	1·43	?	101·20	?
		Noakholly ...	0·16	......	0·46								5·15		117·41
		Fenny ..	......	......	2·85								5·37		117·07
		Harishpore ...					0·05						?		?
		Ramganj ...	......	0·23	......	......							?		?
	Furreedpore	Madaripore ...	......	......	0·58	......	0·28	......	......	2	0·86	1·97	4·37	49·00	64·03
		Furreedpore...	0·12	0·02	......	0·52	......	......	0·60	4	1·26	3·91	4·55	57·60	66·16
		Goalundo ...	......	......	0·16	0·18	......	......	2·10	3	2·44	5·68	4·56	51·04	61·01
	Dacca ...	Munshigunge	0·15	0·50	0·20	......	......	......	......	3	0·85	3·28	5·39	65·05	80·93
		Dacca ...	......	0·54	......	......	......	......	1·43	2	1·97	3·55	5·12	57·35	67·66
		Naraingunge	0·35	0·79	0·41	......	......	......	......	3	1·55	2·83	5·81	66·79	70·32
		Manickgunge	......	0·37	......	0·40	......	......	......	2	0·77	2·08	4·67	49·71	57·85
		Joydebpore ..	......	1·18	......	0·35	......	......	1·21	3	2·74	5·20	?	64·70	?
	Hill Tipperah	Agartola ...	......	1·55									6·48		73·57
	Tipperah ...	Comilla ...	0·24	0·60	0·80	......	......	......	0·05	4	1·69	6·28	6·25	76·55	80·90
		Chandpore ..	0·10	......	......	......	......	......	......	1	0·10	0·90	5·91	60·07	88·26
		Brahmunberia	0·32	0·70	......	......	......	0·97	......	3	1·99	7·56	6·10	77·81	73·37
		Ramchandrapore.	......	0·32	0·18	......	......	......	......	2	0·50	3·32	?	64·18	
		Nasirnagar ...	......	......	......	......	......	......	......	Nil	Nil	4·44	?	63·73	?
		Daudkandi .	......	0·20	......	......	......	......	......	1	0·20	1·70	?	66·38	?
		Kasba ...	0·10	0·80	0·33	......	......	......	......	3	1·23	5·94	?	63·03	?
		Laksham ...	......	1·30	......	......	......	......	......	1	1·30	3·00	?	84·41	?
	Mymensingh..	Kishoregunge	......	1·45	......	1·21	1·37	......	0·65	4	4·68	9·88	6·10	93·41	80·06
		Atia (*Tangail*)	......	0·39									4·12		62·17
		Mymensingh	......	0·44	0·02	......	0·51	......	0·14	4	1·31	5·44	5·22	75·51	82·35
		Jamalpore ...	0·21	0·18	......	......	0·31	......	......	3	0·70	1·28	4·17	68·21	71·01
		Netrokona ...	......	0·11	0·10	0·80	0·12	......	0·20	5	1·33	8·70	5·14	80·67	80·42
		Subornakhally	......	0·74	......	......	0·45	......	0·42	3	1·61	3·81	?	65·98	?
		Durgapore ...	......	......	1·87	......	0·66						?		?
		Sherepore Town	0·35	0·09	......	......	0·25	......	......	3	0·69	3.06	?	?	?
		Dewanganj ...	......	0·01	......	......	......	......	......	1	0·01	2·00	?	57·76	?
NORTH BENGAL.	Pubna .	Pubna ...	......	......	......	......	0·03	......	0·08	2	0·11	2·37	3·85	43·24	60·49
		Serajgunge ...	......	0·36	......	......	......	......	0·18	2	0·54	1·12	3·13	45·21	58·57
	Bogra .	Sherpore ...	......	0·51	......	......	0·35	......	......	2	0·86	0·94	2·13	44·67	62·31
		Nowkhilla ...	......	0·64	......	......	0·50	......	0·21	3	1·35	2·05	2·52	53·92	59·26
		Bogra ...	......	......	......	......	......	......	......	Nil	Nil	Nil	2·99	43·31	65·27
		Panchbibi .	......	......	......	......	......	......	......	Nil	Nil	Nil	1·96	46·99	59·15
	Rajshahye	Beauleah ...	......	......	......	......	......	......	......	Nil	Nil	0·16	1·64	34·08	56·23
		Nattore ...	......	......	......	......	......	......	......	Nil	Nil	1·28	2·97	63·26	59·73
		Naogaon ...	......	......	......	......	......	......	......	Nil	Nil	0·04	?	39·68	?
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	1·62	?	41·65	?
		Manda ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	32·84	?
	Maldah ...	Maldah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·22	51·85	54·17
		Chanchal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·10	35·79	59·14
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·53	?
		Sibganj ...	......	......	......	......	......	......	......	Nil	Nil	0·32	?	49·10	?
	Dinagepore ...	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	1·73	41·24	61·50
		Churamon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·14	50·79	55·18
		Raigunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·91	53·56	62·34
		Dinagepore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	2·51	59·79	67·98
		Baloorghat	......	......	......	......	......	......	......	Nil	Nil	Nil	1·22	42·13	55·60
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	0·98	?	54·20	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).	......	0·35	......	......	......	......	......	1	0·35	1·09	3·42	50·54	67·04
		Rungpore ...	......	......	0·11	......	......	......	......	1	0·11	2·93	3·78	58·63	80·08
		Kurigram ...	......	......	1·60	......	......	......	......	1	1·60	3·20	6·04	79·96	81·83
		Bagdogra (*Nilphamari*).	......	......	......	......	......	......	......	Nil	Nil	3·64	4·26	60·12	91·16
		Ulipore ...	......	......	0·28	......	......	......	......	1	0·28	2·10	?	59·43	?
	Julpigoree ...	Julpigoree ...	......	......	0·16	0·02	......	......	......	2	0·18	1·13	4·91	108·23	124·69
		Alipore Door	......	......	3·20	0·33	......	......	......	2	3·53	6·53	?	92·11	?
		Fallacotta ...	......	0·67	0·38	......	......	......	0·43	3	1·48	5·01	?	98·03	?
		Debiganj ...	......	......	......	......	......	......	......	Nil	Nil	1·40	?	65·68	?
		Bhagalpore (Nagrakatta).	......	......	0·06	......	......	......	......	1	0·06	2·73	?	?	?
	Cooch Behar..	Dinhatta ..	......	......	0·31	0·91	......	......	......	2	1·22	2·44	5·30	96·05	100·52
		Cooch Behar...	......	......	0·45	0·75	......	......	......	2	1·20	2·25	6·56	96·88	127·31
		Mickilgunge...	......	......	......	0·45	......	......	......	1	0·45	1·87	4·72	80·94	114·76
		Matabhanga...	......	......	0·18	0·40	......	......	......	2	0·58	1·21	5·16	78·53	124·72
	Darjeeling Hill.	Buxa .	0·07	0·09	0·15	0·70	0·65	0·27	0·09	7	2·04	3·91	10·29	170·45	207·16
		Silliguri ...	......	......	......	0·11	......	......	......	1	0·11	2·44	3·57	88·95	109·06
		Darjeeling ...	......	0·22	0·21	0·03	0·16	0·18	0·06	6	0·86	3·88	5·04	96·94	116·53
		Kalimpong ...	0·10	0·42	......	......	......	......	0·10	3	0·62	2·69	3·62	76·99	89·50
NORTH BEHAR	Purneah ...	Kissengunge...	......	......	......	......	......	......	......	Nil	Nil	0·47	2·39	50·03	73·99
		Arrareah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	2·05	53·47	66·97
		Purneah .	......	......	......	......	......	......	......	Nil	Nil	Nil	2·82	46·85	65·10
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Matiari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Kaliaganj ...	......	......	......	......	......	......	......	Nil	Nil	0·38	?	60·05	?
	North Bhagulpore.	Maddapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·38	61·06	?
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·25	45·53	53·01
		Protabganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·14	50·36
	Durbhunga	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	46·70	44·73
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·79	39·21	47·47
		Madhubani ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·18	44·32	47·13
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·51	?
		Rosera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	47·00	?
	Mozufferpore	Sitamarhi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·32	36·51	45·45
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·71	40·10	47·20
		Hajipore ...	......	......	......	......	......	......	......	Nil	Nil	0·01	0·29	40·42	45·16
		Paru ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·09	?
		Mahua ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·20	?
		Siuhar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	42·94	?
		Pupri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	25·56	?
	Chumparun...	Motihari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·93	40·03	46·41
		Bettiah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·25	49·54	50·8
		Bagaha ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56·22	?
		Burhurwa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43·17	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 3rd of May 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 27th April 1889.	Sunday, 28th April.	Monday, 29th April.	Tuesday, 30th April.	Wednesday, 1st May.	Thursday, 2nd May.	Friday, 3rd May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of April.	Average total rainfall from 1st of April.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·64	41·24	53·29
		Khurdah ...	......	......	......	......	......	......	......	Nil	Nil	0·12	0·76	44·67	58·69
		Banpur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·65	37·09	52·94
		False Point ...	......	......	......	......	......	......	......	Nil	Nil	0·68	2·27	56·96	68·98
		Gop ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Pipli ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	Cuttack .	Jagatsingpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·72	58·64	49·19
		Banki ...	......	......	......	......	0·15	......	......	1	0·15	0·21	0·45	45·26	53·39
		Cuttack ...	......	......	......	......	......	......	......	Nil	Nil	0·86	1·57	53·87	59·85
		Kendrapara ...	......	......	......	......	......	......	......	Nil	Nil	0·72	1·15	47·32	56·15
		Jajpore ...	......	......	......	......	......	......	......	Nil	Nil	0·58	2·08	62·98	58·51
		Dharmsala ...	......	......	......	......	......	......	......	Nil	Nil	1·25	?	58·98	?
		Salipore ...	......	......	......	......	......	......	......	Nil	Nil	0·70	?	58·39	?
	Balasore ...	Chandbali ...	......	......	......	......	......	......	......	Nil	Nil	0·80	1·32	53·95	55·65
		Bhuddruck ...	......	......	......	......	......	......	0·28	1	0·28	0·28	2·18	51·28	56·57
		Sorah ...	......	......	......	......	......	......	......	Nil	Nil	1·27	2·42	53·16	55·93
		Balasore ..	......	......	......	......	......	......	......	Nil	Nil	1·51	2·88	59·20	63·35
		Jellasore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·65	57·02	56·49
		Baripodah ...	......	......	......	......	......	......	......	Nil	Nil	1·73	1·81	57·88	57·60
SOUTH-WEST BENGAL.	Midnapore ..	Contai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·61	52·64	65·24
		Saugor Island	......	......	......	......	......	......	......	Nil	Nil	Nil	1·66	53·60	71·10
		Tumlook ...	......	......	......	......	......	......	......	Nil	Nil	0·70	1·94	67·90	56·12
		Midnapore ...	0·03	......	......	......	......	......	......	1	0·03	1·46	1·86	71·62	53·11
		Ghattal ...	......	......	......	......	......	......	0·30	1	0·30	1·44	2·47	59·93	59·52
		Kukrahaty ...	......	......	......	......	......	......	......	Nil	Nil	1·09	?	68·60	?
		Hersa ...	0·02	......	......	......	......	......	......	1	0·02	0·14	?	54·10	?
		Bhagwanpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	56·18	?
		Garbetta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour ...	......	......	......	......	......	......	......	Nil	Nil	1·27	2·76	60·27	64·43
		Canning Town	......	......	......	......	......	......	......	Nil	Nil	1·05	?	58·61	?
		Alipore Jail ...	0·21	......	......	......	......	......	......	1	0·21	2·45	2·39	68·13	61·10
		Barrackpore...	......	......	......	......	......	......	......	Nil	Nil	0·83	2·19	64·32	53·39
		Dum-Dum ...	......	......	......	......	......	......	......	Nil	Nil	0·68	2·10	63·28	58·86
		Baraset ...	......	......	......	......	......	0·08	......	1	0·08	0·48	2·34	68·32	54·46
		Buseerhat ...	......	......	......	......	......	......	......	Nil	Nil	0·62	2·43	53·95	60·09
	Howrah ...	Howrah ...	......	......	......	......	......	......	......	Nil	Nil	1·18	2·56	70·51	57·23
		Mohesreka ... (*Ooloberiah.*)	0·55	......	......	......	......	......	......	1	0·55	1·44	2·40	64·41	57·00
	Hooghly ..	Serampore ...	......	......	......	......	......	0·03	......	1	0·03	0·91	2·35	69·83	55·00
		Hooghly ...	......	......	......	......	......	......	......	Nil	Nil	1·70	2·08	69·81	53·32
		Jehanabad ...	......	......	......	......	......	......	......	Nil	Nil	1·54	2·63	64·89	60·06
	Burdwan ...	Culna ...	......	......	......	......	......	......	......	Nil	Nil	1·04	3·09	62·72	49·76
		Burdwan ...	......	......	......	......	......	......	......	Nil	Nil	1·36	2·91	48·73	53·13
		Cutwa ...	......	......	......	......	......	......	......	Nil	Nil	0·34	2·37	62·05	52·55
		Raneegunge ..	......	......	......	......	......	......	......	Nil	Nil	0·11	1·37	59·43	51·68
		Mankur ...	......	......	......	......	......	......	......	Nil	Nil	0·42	?	45·22	?
	Bankoora ...	Bankoora ...	......	......	......	......	......	......	......	Nil	Nil	1·44	1·81	51·50	55·23
		Bishenpore ...	......	......	......	......	......	......	......	Nil	Nil	1·05	2·18	58·38	55·72
		Maliara ...	......	......	......	......	......	......	......	Nil	Nil	0·40	1·11	52·35	54·30
		Khatra ...	......	......	......	......	......	......	......	Nil	Nil	1·78	0·91	58·47	56·89
		Indas ...	......	......	......	......	......	......	......	Nil	Nil	1·68	?	43·89	?
		Kotalpore ...	......	......	......	......	......	......	......	Nil	Nil	1·20	?	51·38	?
		Anda ..	......	......	......	......	......	......	......	Nil	Nil	0·25	?	39·76	?
		Gangajalghati	......	......	......	......	......	......	......	Nil	Nil	0·25	?	58·51	?
		Raipore ...	......	......	......	......	......	......	......	Nil	Nil	0·86	?	57·21	?
		Sonamukhi ...	......	......	......	......	......	......	......	Nil	Nil	1·53	?	49·45	?
	Beerbhoom ..	Bh. Soory ...	......	......	......	......	......	......	......	Nil	Nil	0·03	1·20	56·10	56·61
		Hetampore ...	......	......	......	......	......	......	......	Nil	Nil	0·12	1·32	49·94	57·02
		Rampore Haut	......	......	......	......	......	......	......	Nil	Nil	0·11	1·72	73·08	54·72
		Bolpore ...	......	......	......	......	......	......	......	Nil	Nil	0·18	?	64·40	?
		Murarai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
	Nuddea ...	Ranaghat ...	......	......	......	......	......	......	......	Nil	Nil	0·92	3·50	66·07	53·09
		Kishnaghur ...	......	......	......	......	......	......	......	Nil	Nil	0·51	3·10	70·88	51·37
		Chooadanga ...	......	......	......	......	......	......	......	Nil	Nil	0·75	3·26	55·67	57·27
		Meherpore ...	......	......	......	......	......	......	......	Nil	Nil	7·39	3·45	60·52	54·15
		Kooshtea ...	......	......	......	......	0·11	......	0·20	2	0·31	1·16	3·57	38·72	60·94
	Khoolna ...	Satkhira ...	......	......	......	......	......	......	......	Nil	Nil	0·74	3·51	42·32	62·08
		Bagirhat ...	1·80	0·38	......	......	......	......	......	2	2·18	3·46	3·99	55·47	68·65
		Khoolna ...	1·57	......	......	......	......	......	......	1	1·57	2·73	3·99	52·57	62·20
	Jessore ...	Narail ...	0·11	......	......	......	......	......	......	1	0·11	2·72	3·88	35·27	58·10
		Jessore ...	......	......	......	......	......	......	......	Nil	Nil	2·62	4·82	60·83	62·76
		Jhenidah ...	......	......	......	0·75	......	......	......	1	0·75	2·60	4·12	39·69	60·93
		Magoorah ...	......	......	......	2·06	......	......	......	1	2·06	2·91	4·46	47·41	56·35
		Bongong ...	......	......	......	......	......	......	......	Nil	Nil	0·82	3·18	51·74	57·88
	Moorshedabad	Kandi ...	......	......	......	......	......	......	......	Nil	Nil	0·10	2·06	53·50	53·93
		Berhampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·99	43·62	55·37
		Lalbagh ...	......	......	......	......	......	......	......	Nil	Nil	0·08	1·61	49·19	54·17
		Azimgunge ...	......	......	......	......	......	......	......	Nil	Nil	1·45	1·53	?	54·35
		Jungipore ...	......	......	......	......	......	......	......	Nil	Nil	1·47	1·32	50·98	51·79
		Lalgola ...	......	......	......	......	......	......	......	Nil	Nil	0·55	1·68	54·84	54·45
		Jiagunge ...	......	......	......	......	......	......	......	Nil	Nil	0·69	?	50·09	?
		Akhriguny ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·08	?
		Patkabari ...	......	......	......	......	......	......	......	Nil	Nil	0·50	?	44·79	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	......	......	......	......	......	......	0·07	1	0·07	0·07	3·17	147·57	139·26
		Chittagong ...	......	......	3·20	0·01							4·37		101·55
		Kutubdia ...	......	......	1·26								?		?
		Satkanya ...	......	......	0·64								?		?
	Chittagong Hill Tracts.	Rangamati ...	......	......	3·04	......	......	......	0·36	2	3·40	4·44	4·57	81·55	92·37
		Ruma ...	......	......									4·51		86·30
	Backergunge	Patuakhally ..	......	......	0·45	......	......	......	......	1	0·45	1·22	3·54	69·84	94·00
		Perozepore ...	0·48	1·14	......	......	......	......	......	2	1·62	3·08	3·22	65·66	76·20
		Burrisal ...	0·52	0·51	0·02	0·02	......	0·04	......	5	1·11	1·80	3·97	70·02	75·47
		Bhola ...	0·60	0·26	......	......	......	0·11	......	3	0·97	1·69	3·89	79·25	86·75

for the week ending Friday, the 3rd of May 1889.

			DISTRICT OBSERVATIONS.												
					RAINFALL.										
			OF WEEK.		Since 1st of April.			Since 15th May 1888.							
Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
93	3·6	Nil	Nil	0·12	0·21	1·08	−0·87	44·98	58·40	−13·42	0·0	0·6	Pooree ...		ORISSA.
84	1·0	0·05											Gopalpore ...	Pooree	
87	3·6	Nil											False Point ...		
69	1·9	Nil	0·03	0·26	0·47	1·18	−0·71	53·61	55·11	−1·50	0·2	0·6	Cuttack ...	Cuttack	
71	0·9	Nil	0·05	0·08	0·93	2·04	−1·11	55·40	57 71	−2·31	0·2	1·6	Balasore ...	Balasore	
83	5·6	Nil	Nil	0·63	0·42	1·97	−1·55	57·17	67·01	−0·84	0·0	1·3	Saugor Island ..	South-West Midnapore South 24-Pergunnahs	SOUTH-WEST BENGAL.
67	0·6	Nil	0·11	0·71	1·18	2·00	−0 91	66·45	56·28	+10·17	0·7	1·5	Midnapore ...	Midnapore	
77	2·4	0·15	0·09	0·95	1·09	2·45	−1·36	66·19	56·87	+9·32	0·4	1·8	Calcutta ...	24-Pergunnahs ... Howrah ... .. Hooghly ..	
65	0·7	Nil	Nil	1·16	0·92	2·79	−1·87	57·84	51·92	+5·92	0·0	2 2	Burdwan ...	Burdwan	
58	0·4	Nil	Nil	0·58	1·17	1·50	−0·33	55·19	55 60	−0·41	0 0	1 5	Bankoora ...	Bankoora	
51	0·1	Nil	Nil	0·41	0·09	1·43	−1·33	59·77	54 65	+5·12	0·0	1·6	Raneegunge ...	Beerbhoom ... ... West Burdwan ...	
74	4·3	Nil	Nil	0·58	0·53	1·69	−1·16	50 49	53·95	−3·46	0 0	1·5	Berhampore ..	Moorshedabad	
70	1·7	Nil	0·06	1·14	2·14	3·39	−1·25	58·37	55·36	+3·01	0·4	1·6	Krishnaghur ...	Nuddea	
77	5·0	Nil	0·83	1·41	2·32	3·99	−1·67	48·17	60·56	−12·39	0·8	2·1	Jessore ...	Jessore ... ... Khoolna	
75	5·6	3·79	1·69	1·92	1·78	3·78	−2·00	128·82	120·37	+8·45	1 5	2·3	Chittagong ...	Chittagong	EAST BENGAL.
				1 91		4·55			89·85			2 7	Demagiri ...	Chittagong Hill Tracts	
78	4·9	1·25	1·04	1·33	1·96	3·66	−1·70	70·14	83·91	−7·77	2 8	2 2	Barrisal ...	Backergunge	
73	6·4	0·62		2·12		5 27			117·28			2·7	Noakholly ...	Noakholly	
79	5·1	0·60	1·52	1·55	3·84	4·40	−0·65	52·53	64·47	−11·94	3·0	2·3	Furreedpore ...	Furreedpore	
77	7·6	0·59	1·29	1·46	2·95	5·24	−2·29	59 73	69·47	−9·74	2·5	2 6	Dacca ...	Dacca	
81	5 7	1·41	1·33	2·14	5·53	6 18	−0·65	66 83	80·67	−13·84	2·3	2·7	Commillah ..	Tipperah	
85	8·0	1·00	1·64	1·98	5·34	4·95	+0·39	72·88	75·44	−2·56	3·4	2 7	Mymensingh ...	Mymensingh	
74	8·7	0·03	0·55	0·91	0·75	2·41	−1·66	47·22	61·54	−14·32	1 3	1·7	Bogra ...	Bogra	NORTH BENGAL.
77	7·7	0·02	0·33	1·26	1·75	3 66	−1·91	44·24	59·62	−15·38	2·0	2·3	Serajgunge ..	Pubna	
73	2·7	Nil	Nil	1·00	0·72	2 31	−1·59	48·66	57 97	−9 31	0 0	1 8	Rampore Beauleah	Rajshahye	
70	1·1	Nil	Nil	0·60	Nil	1 32	−1·32	43·85	56·71	−12·86	0·0	1 2	Maldah ...	Maldah	
75	6·6	Nil	Nil	0·75	Nil	1 70	−1·70	49·52	60·29	−10·77	0·0	1·5	Dinagepore ..	Dinagepore	
79	4·0	0 12	0·52	1·92	2 94	4·39	−1·45	62·34	80·11	−17 77	0 8	2·7	Rungpore ...	Rungpore	
80	4·3	0·10	0·73	1·74	1·82	5·33	−3·51	92·16	118·78	−26·62	1·5	3·0	Julpigoree ...	Julpigoree ... ... Cooch Behar	
84	7·1	0·88	0·90	1·44	3·15	5·64	−2·49	108·32	129·78	−21·46	4·3	3 5	Darjeeling ...	Darjeeling Hill Tracts	
62	1·7	Nil	Nil	0·77	0·10	1·99	−1·89	51·39	61·64	−10 25	0·0	1·5	Purneah ...	Purneah ... .. North Bhagulpore ..	NORTH BEHAR.
			Nil	0·30	Nil	0·77	−0·77	44·01	45·21	−1·20	0·0	0·8	Mozufferpore ...	Mozufferpore	
56	0·9	Nil	Nil	0·38	Nil	0·82	−0·82	43·20	46 25	−3·05	0·0	0·8	Durbhunga ...	Durbhunga	
54	2·6	Nil	Nil	0·59	Nil	1·10	−1·10	44·81	48 68	−3·87	0·0	1·0	Motihari ...	Chumparun	
45	0	Nil	Nil	0·41	Nil	0·57	−0·57	41·68	44·18	−2·50	0·0	0·5	Chupra ...	Sarun	
32	0	Nil											Dehree ...		SOUTH BEHAR.
36	0	Nil	Nil	0·08	Nil	0·22	−0·22	44·42	41·05	+3·37	0·0	0·3	Buxar ...	Shahabad	
42	0	Nil											Arrah ..		
60	0·6	Nil	0·02	0 07	0·04	0·34	−0 30	52 91	42 70	+10·12	0·2	0 4	Gya ...	Gya	
41	0	Nil	Nil	0·20	Nil	0·37	−0·37	51·21	42·42	+8·79	0·0	0·4	Bankipore ...	Patna	
64	0·1	Nil	Nil	0·25	Nil	0 67	−0·67	52·38	44 76	+7·62	0 0	0·6	Bhagulpore ...	South Bhagulpore ... Monghyr	
20	0	Nil	Nil	0·37	0·24	0·96	−0·72	55·62	52 79	+2 83	0·0	1·0	Doomka ...	Sonthal Pergunnahs ...	
18	0·3	Nil	Nil	0·12	0·63	0 32	+0·31	59 22	52·21	+7 01	0·0	0·5	Hazaribagh ...	Hazaribagh	CHOTA NAGPORE.
28	1·1	0·13	0·04	0·09	0·59	0 38	+0·21	52 89	50·01	+1 98	0·3	0·6	Ranchi ...	Lohardugga	
			Nil	0·21	0·66	0·82	−0·16	48·80	49·49	−0·69	0·0	0·7		Manbhoom	
34	1·7	Drops	Nil	0·27	1 19	0·88	+0·31	42·49	54 48	−11·99	0 0	0 9	Chyebassa ...	Singbhoom	
94	4·3	3 38											Sibsagar	...	ASSAM.
84	9·0	0·55											Dhubri	......	
91	9·1	11·99											Silchar	......	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of he rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisions

Station Bazars of the Districts of Bengal on the 30th April 1889—(concluded).

INDIAN-CORN OR MAIZE (*Zea Mays*)			ARHAR OR THUR, CADJAN PEA (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS — SALT			DISTRICTS.
Present return.	Next preceding return	Corresponding return of last year	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	*Eastern Districts*—concluded.
..	.	.		...	...	100 0	108 0	110 0	P 9 0	9 0	9 0	4 0 0	4 0 0	3 14 0	Chittagong
..	..		..	..	.	.	..	..		...	.	......	.	...	Noakholly
.	..		9 0	9 0	10 0	..	...	.	8 0	8 0	8 0	4 6 0	4 6 0	4 10 0	Tipperah
.		..	.	.	..	320 0	320 0	100 0	8 0	8 0	6 6	.....	.	6 4 0	Chittagong Hill Tracts
...	...	..	8 0	8 0	12 0	...	...	..	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tippera
															BEHAR.
19 0	19 0	27 8	21 0	23 0	27 0	130 0	130 0	120 0	10 0	10 0	10 0	3 12 6	3 12 3	3 12 0	Patna
...	.	...	18 4	21 0	20 0	200 0	200 0	160 0	9 2	9 2	9 8	4 2 0	4 2 0	4 1 0	Gya
...	..		13 1	14 0	15 8	160 0	160 0	110 0	Q 10 0	10 0	10 0	.....			Shahabad
19 6½	20 9	33 0	19 6½	21 2	27 7	183 1¼	160 0	196 0	11 6½	11 6	11 0	3 8 3	3 14 5	3 8 0	Durbhunga
16 0	18 0	24 0	20 0	25 0	30 0	160 0	160 0	160 0	S 10 0	10 0	10 0	3 12 0	3 12 0	3 12 0	Mozufferpore
16 8	20 0	23 8	21 0	22 8	27 8	160 0	160 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 11 6	Sarun
17 0	18 0	28 0	21 0	22 0	28 0	160 0	160 0	160 0	T 9 8	9 4	9 8	4 0 0	4 1 0	4 0 0	Chumparun
21 10	19 11	29 7	18 10	19 14	26 4	147 0	147 0	126 0	U 9 8	9 8	11 0	4 0 0	4 0 0	3 5 0	Monghyr
17 10	17 10	25 4	20 3	20 3	25 4	176 12	176 0	70 7	10 1	10 1	10 1	.....		...	Bhagulpore
.	...	..	16 0	16 0	18 0	200 0	200 0	120 0	V 9 0	9 0	8 8	4 5 0	4 5 0	4 8 0	Purneah
...	...	...	.		..	160 0	160 0	120 0	9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	Maldah
18 0	18 0	29 0	22 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	10 0	4 3 0	4 3 0	3 13 0	Sonthal Pergunnahs
															ORISSA.
...	..	..	19 11	8 6	17 1	80 0	80 0	80 0	11 0	8 0	10 0	2 12 0	4 7 0	3 11 0	Cuttack
...	...		13 2	13 2	15 12	80 0	80 0	80	0 8	11 13	10 8	3 8 0	3 6 0	3 8 0	Pooree
...	...	...	...	...		160 0	160 0	200 0	W 10 0	9 9	9 8	3 15 0	4 0 0	4 6 0	Balasore
															CHOTA NAGPORE. *South-West Frontier Agency.*
16 0	16 0	19 0	18 8	18 0	18 8	320 0	320 0	320 0	8 8	8 0	8 0	4 6 0	4 8 0	4 8 0	Hazaribagh
..	...	..	big 12 8; small 14 4	16 0	big 12 8; small 22 0	140 0	140 0	110 0	8 0	8 8	8 6	4 14 0	4 9 0	4 [illegible] 2 0	Lohardugga
22 0	22 0	...	16 0	16 0	22 0	200 0	200 0	210 0	7 0	7 0	6 8	5 8 0	5 8 0	6 0	Singbhoom
25 0	30 0	30 0	16 0	17 0	22 0	200 0	200 0	200 0	X 9 0	8 0	8 0	4 4 0	4 2 0	4 8 0	Manbhoom

T At Bettiah retail price of salt 9¼ seers per rupee.
U In sub-divisions retail prices of salt per rupee are :—Beguserai 9¼ seers and Jamui 9 seers.
V At Kishengunge retail price of salt 8 seers per rupee.
W At Bhudruck retail price of salt 8 seers per rupee.
X At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Fo

Number	MARTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	RICE, B Present return.	
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R
1	Calcutta .	2 13 7	2 12 5	2 8 10	2 1 2	1 14 0	1 6 3	4 0 3	3
2	Sorajgunge ..	2 5 0	2 8 0	2 0 0	...	...	..	3 10 0	3
3	Dacca .	2 8 0	2 8 0	2 0 0	1 8 0	1 8 0	1 0 0	3 0 0	2
4	Naraingunge	...	...	...	...	...	...	3 0 0	2
5	Chittagong	3 9 0	3 9 0	3 8 0		.	...	3 8 0	3
6	Patna ...	2 12 0	2 10 0	2 0 0	1 15 6	1 9 0	1 6 0	3 14 0	3
7	Balasore ...	2 4 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0	3
8	Pooree ..	...	...	...	...	...	..	...	
9	Cuttack ...	2 10 0	2 10 0	2 10 0	...	...	...	3 10 0	3

CALCUTTA;
The 7th May 1889

OF 40 SEERS.

MARUA OR RAGI. (Eleusine Coracana.) Present return.	MARUA OR RAGI. Next preceding return.	MARUA OR RAGI. Corresponding return of last year.	KANGNI OR KAKUN. ITALIAN MILLET. (Setaria italica.) Present return.	KANGNI OR KAKUN. Next preceding return.	KANGNI OR KAKUN. Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...	2 0 0	1 13 8	2 12 9
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	3 0 0	[illegible] 8 0	1 12 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

undermentioned Marts of Bengal during the fortnight ending 30th April 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 3	1 15 0	1 9 0	.	...	2 2 6	2 5 1	2 1 0	1 13 11	0 5 9	0 5 10	0 6 3	3 9 5	3 9 6	3 7 10	Calcutta.
3 2 0	2 7 0	1 15 0	...	...	...	...	...	...	...	...	...	3 13 6	3 12 0	3 12 0	Serajgunge
3 0 0	3 0 0	2 1 0	...	...	...	2 8 0	2 8 0	2 0 0	0 5 0	0 5 0	0 5 0	3 14 0	3 14 0	4 4 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 10 0	0 10 0	0 10 0	3 12 0	3 12 0	4 0 0	Naraingunge.
3 0 0	3 8 0	2 9 0	...	.	...	...	...	.	0 7 0	0 5 0	0 5 0	4 0 0	4 0 0	3 14 0	Chittagong
1 15 0	1 11 3	1 5 9	2 1 0	2 1 0	1 6 0	1 14 0	1 11 6	1 6 0	0 5 0	0 5 0	0 5 0	3 12 6	3 12 0	3 12 0	Patna
2 14 0	2 14 0	2 6 0	...	.	.	...	...	..	0 4 6	0 4 6	0 4 0	3 15 0	4 0 0	4 6 0	Balasore.
...		.	.	.	.	..	.	..	...	...	...	3 8 0	3 6 0	3 8 0	Pooree.
1 11 0	1 11 0	1 11 0	...	...	..	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	2 12 0	4 7 0	3 14 0	Cuttack.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

STATION OBSERVATIONS.

Meteorological Division	District	Representative station	Air Pressure: Mean barometric height, 8 A.M.	Air Pressure: Mean reduced to sea-level	Air Pressure: Variation from mean	Wind: Prevailing direction	Wind: Mean wind velocity	Temperature: Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree	29·702	29·714	—	SW	285	89·7	27th April	77·6	27th April	88 5	78 6	83 6	—	81·8
		Gopalpore	29·688	29·737	—·076	SW	572	88·2	27th " & 1st May	79·8	1st May	87·4	81·0	84 2	+1·6	83·9
		False Point	29·689	29·710	—·080	SSW	429	90 5	29th & 30th April*, 2nd & 3rd May	80·2	27th April, 1st & 2nd May.	90 1	80 7	85 4	—0·1	86 3
	Cuttack	Cuttack	29·627	29 705	—·075	SW	174	112·4	29th April	81·9	27th April	108 0	83 1	95 6	+5·0	88 9
	Balasore	Balasore	29·623	29 681	—·107	SW	182·2	110·5	30th "	79·7	27th "	105 1	82 1	93 6	+7·2	87 8
South-West Bengal	South-West Midnapore; South 24-Pergunnahs	Saugor Island	29·677	29 703	—·093	S	655	96·2	27th "	83 5	27th & 28th April & 3rd May.	94 3	84 4	89 4	+3·9	86 6
	Midnapore	Midnapore	29·517	29·666	—·113	S	144·3	115·4	30th "	80·0	28th April	110·4	81·1	95 8	+7 0	88·7
	24-Pergunnahs; Howrah; Hooghly	Calcutta	29·654	29·675	—·100	SSW & SW	223	101·9	3rd May	79 2	27th "	99 6	81 7	90·4	+4 8	82·0
	Burdwan	Burdwan	29 551	29·651	— 127	S	120·4	112·2	30th April & 1st May	80·4	27th "	107 8	81 8	94 8	+7·0	86 8
	Bankoora	Bankoora	29·370	29·638	—	W & Calm	117	114·1	30th April, 1st & 2nd May.	81·0	28th "	109 6	82 4	96 0	—	90·8
	Beerbhoom; West Burdwan	Raneegunge	29·324	29·627	—·117	South Westerly	100·1	114·5	2nd "	81·8	1st & 3rd May.	108·3	83·6	96·0	+7·4	90 5
	Moorshedabad	Berhampore	29·581	29·647	—·126	SW	152·8	111·7	2nd "	77·3	27th April	106 8	80 2	93 5	+5 8	85·3
	Nuddea	Krishnaghur	29·618	29·684	—·099	S	239·1	109·8	30th April	77·7	27th "	105 7	81·1	93 5	+7 9	87 3
	Jessore; Khoolna	Jessore	29·658	29·691	—·124	Southerly	121·4	104·3	3rd May	76·9	27th "	101 9	81 5	91 7	+6 5	87·7
East Bengal	Chittagong	Chittagong	29·684	29·773	—·090	SW	307·8	94·2	27th & 28th April	75·0	29th April & 2nd May	91 1	78 3	84 7	+3·0	83·3
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29 705	29 717	— 113	S	247·7	95·8	28th April	74·9	28th April	93·7	80 3	87 1	+4 9	85 5
	Noakholly	Noakholly	29·700	29 743	—	SSW	263·2	96 0	28th "	74·8	29th "	92 3	80 6	86·5	—	87 3
	Furreedpore	Furreedpore	29 652	29·691	—·141	S	235	99 0	3rd May	75 4	27th "	95 9	78 6	87·3	+5 9	85 3
	Dacca	Dacca	29 679	29 702	— 115	S	193·3	102 0	27th April	75 7	2nd May	97 3	80 0	88 7	+5 7	86·5
	Commillah	Commillah	29 681	29 710	—·125	S	112·2	98·3	27th "	69 8	29th April	92 6	77 8	85 2	+4 5	84 0
	Mymensingh	Mymensingh	29 644	29 702	— 143	ESE	175 4	97·3	27th "	71 6	29th "	92 0	73 5	82 8	+4 0	79 4
North Bengal	Bogra	Bogra	29·597	29·660	—·125	South-Easterly	274·1	109 3	3rd May	73 8	29th "	102 2	76 6	89 4	+6 6	83 5
	Pubna	Serajgunge	29 625	29 672	—·148	SSE	155·2	100 6	3rd "	72 2	29th "	98 8	76 1	87 5	+6 5	83 8
	Rajshahye	Rampore Beauleah	29 585	29 655	— 133	SSW	166·3	109 0	2nd "	76 4	30th "	104 1	79 1	91·6	+8 5	85 7
	Maldah	Maldah	29 591	29 672	—	Variable	76 0	110·0	3rd "	75 3	30th "	106 5*	78 4*	92 5*	—	85 9
	Dinagepore	Dinagepore	29 541	29 661	—·132	ENE	170·0	108 1	2nd "	72 6	29th "	99 9	75 7	87 8	+8·0	82·5
	Rungpore	Rungpore	29 571	29 697	— 141	NE & SE		103 8	3rd "	71·6	29th "	94 9	73 9	84·4	+7 1	80 1
	Julpigoree; Cooch Behar	Julpigoree	29·400	29 695	— 138	E	*78 6	96 9	27th April & 3rd May.	67 9	29th "	90 4 *4 days	70 7	80 6 *4 days	+4·7	79·0
	Darjeeling Hill Tracts	Darjeeling	22 904	—	— 052	Westerly	114 0	67·1	2nd & 3rd May.	50 1	28th "	64 2	52·5	58·6	+2·2	60·0
North Behar	Purneah; North Bhagulpore	Purneah	29 534	29 660	—·122	ENE	66·3	107·3	3rd "	69·4	3rd May	101 0	74·4	87 9	+4 2	83 9
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29 478	29·645	—·130	ENE & ESE	161	104·4	2nd May	70 3	3rd "	99 5	76·7	88 1	+3·2	83·8
	Chumparun	Motihari	29 415	29·643	—·124	E	223	104 8	3rd "	64·8	3rd "	101 4	73·7	87·6	+4 3	82 5
	Sarun	Chupra	29·434	29·626	—·129	Westerly	130·6	111 2	2nd "	74 6	27th April	106 6	77 1	91·9	+5 1	88 5
South Behar	Shahabad	Dehree	29 286	29·635	—·107	SW	249 5	112·0	2nd "	71 0	27th "	106 6	79·1	92·8	+4·1	90·7
		Buxar	29·387	29 627	— 111	WSW	167 9	109·4	2nd "	74 3	27th "	105·3	77 8	91·6	+2·8	87·4
		Arrah	29 447	29·642	— 102	W	94 4	110 4	2nd "	74·1	3rd May	105 8	77·0	91 4	+3 0	87 6
	Gya	Gya	29·279	29 652	— 070	SW	173 1	111·6	2nd "	78 8	27th April	107 5	82·3	94 9	+3·6	90 3
	Patna	Bankipore	29 419	29·651	—·122	W	110 6	110·1	2nd "	73·7	3rd May	106·6	77·8	92 2	+3 8	87 6
	South Bhagulpore; Monghyr	Bhagulpore	29 473	29·635	—·109	Variable	105·7	109·8	2nd "	73 8	3rd "	102 5	76 3	89·4	+5·5	85 9
Chota Nagpore	Sonthal Pergunnahs	Doomka	29·148	29 656	—	Variable	135 2	111 2	2nd "	78·2	30th April	106 7	79·8	93·2	—	90 6
	Hazaribagh	Hazaribagh	27 099	29 650	— 062	SW	297 0	106 0	30th April & 2nd May	73 6	27th "	101·9	78·2	90·1	+3 6	91·5
	Lohardugga; Manbhoom	Ranchee	27·583	29 649	—·069	SW	190·3	105 0	30th April, 1st & 2nd May.	70·9	27th "	100·5	78·1	89·3	+3 2	91·0
	Singbhoom	Chyebassa	28 753	29 667	—	SSW	80 7	113 8	2nd May	80 8	27th "	109 1	83 1	96·1	—	92·9
Assam		Sibsagar	29 419	29 759	—·127	N	—	88 1	27th April	66·9	3rd May	82 8	71 6	77·2	+1·6	74·7
		Dhubri	29·580	29 639	— 121	ENE	260·5	97·8	27th "	72·3	29th & 30th April	89 9	73·7	81 3	+2·6	76·0
	...	Silchar	29 670	29·7,8	—·093	ENE		94·5	27th "	67·3	30th April & 2nd May.	85 3	69 3	77·5	—1·4	72·7

* Mean of 5 days.

Explanation.—Summary.— The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 27 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 3RD MAY 1889.

At the commencement of the week the general conditions which obtained were those of the hot weather in a very pronounced form. Temperature was above the normal at almost all stations except a few in South Behar and Chutia Nagpur, and the excess in the mean temperature in several districts averaged about 7°. Pressure, on the other hand, was below the normal, the defect usually equalling from a twentieth to a tenth of an inch These conditions rather intensified on the 28th and 29th of April, and on the latter date the defect in the pressure varied from about a tenth to a twentieth of an inch. Pressure than rose by small amounts on the 30th, but this was succeeded by a fall on May 1st, and by a further rise on the 2nd and 3rd, the rise being decidedly rapid on the 3rd; so that at the close of the week the pressure conditions were fairly normal. Temperature, on the other hand, rose at the commencement of the week, and, except in Assam, has continued to be exceptionally high up to the close of the week, and on the 3rd, at several of the stations in the province, the mean temperature for the day was more than 10° in excess of the normal. In Assam, on the other hand, owing to the fact that rather heavy rain has commenced to be received there, temperature fell in the middle of the week, and has now become decidedly below the normal.

The usual hot weather distribution of winds has accompanied the above conditions, and strong south-westerly and southerly winds have been blowing at the southern stations, westerly winds at the western stations, and easterly winds in Assam and along the foot of the hills in Bengal. Owing perhaps to the very exceptional temperatures which have been recorded during the week, which would show that the differences of temperature between the land and sea surface must be larger than usual, the southerly breezes blowing at the head of the Bay and in South Bengal have been exceptionally strong; and at such stations as Saugor Island, wind has been blowing almost a gale for the greater part of the week; and thus from the 1st to the 2nd of May, the hourly wind velocity at that station averaged 34 miles, and for the whole week it has averaged nearly 28 miles an hour.

The general conditions in all districts, except in Assam and in East and part of North Bengal, have not been favourable for the production of local storms or nor'-westers, and thus in Orissa, South West Bengal, North and South Behar, and Chutia Nagpur rainfall has been practically absent. In Assam, on the other hand, rain has fallen on almost all days of the week, and in East Bengal and in the parts of North Bengal near the hills, rain accompanying local storms was frequent in the first half of the week.

Pressure—As previously stated, has been generally low for the greater part of the week, and the mean pressure for the whole of Bengal for the week has averaged a tenth of an inch below the normal. This defect is generally smallest at the western and southern stations, and largest in the north of the province; while in Assam the defect averages 0·114 inch, and at Sibsagar it equals 0·127 inch.

Temperature—Has been exceptionally high in all districts, except Assam, throughout the week. The general mean temperature of the week for the whole of Bengal has been nearly five degrees in excess of the normal, and in such districts as South-West and North Bengal, the excess has been between six and seven degrees. In all districts very high maximum temperatures have been reported, the highest being 115·4° at Midnapore on 30th April.

Rainfall.—The only district of Bengal which has received good general rain is East Bengal, which has averaged 1·10 inches during the week, which is, however, only about two-thirds of the normal fall for the period. In North Bengal an average fall of a third of an inch has been registered, which is only a fourth of the normal fall. In South-West Bengal a still smaller fall of less than a fifth of an inch is registered, and in Orissa and Chutia Nagpur, only a few unimportant showers are recorded, while Behar has been absolutely rainless. In Bengal, therefore, the week has again been one characterised by a largely deficient rainfall.

In Assam, on the other hand, rather heavy rain has now commenced to fall. Silchar, during the week, has received no less than 11·99 inches of rain, Sibsagar has received 5·38 inches, and Dhubri 0·55 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 3rd May 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of April.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	112·2	77·6	95·8	81·1	88·5	+8·4	0·03	0·39	—0·36	0·1	0·9	—0·8	0·58	1·50	52·41	50·99
South-West Bengal ...	115·4	76·9	104·9	82·0	93·5	+6·3	0·18	0·90	—0·72	0·3	1·8	—1·5	1·22	2·52	58·35	57·02
East Bengal	102·0	69·8	93·6	78·4	86·0	+4·7	1·10	1·78	—0·68	2·7	2·6	+0·1	3·29	4·88	75·69	83·07
North Bengal	110·0	67·9	99·5	75·8	87·7	+6·9	0·36	1·23	—0·87	0·9	2·1	—1·2	1·20	3·21	57·86	75·44
North Behar	111·2	64·8	102·1	75·5	88·8	+4·2	Nil	0·52	—0·52	0·0	1·0	—1·0	0·03	1·17	45·73	50·84
South Behar	112·0	71·0	105·9	78·6	92·2	+3·8	Nil	0·21	—0·21	0·0	0·7	—0·7	0·06	0·54	51·73	45·25
Chutia Nagpur	108·0*	70·9*	101·2*	78·2*	89·7*	+3·4*	0·01	0·14	—0·13	0·1	0·8	—0·7	0·64	0·46	52·83	51·56
Assam	97·8	66·9	86·0	71·6	78·8	+0·9										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 7th May 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of April 1889.

	Inches.	Date.	Hour.
The mean pressure of the month	29·744		
The average pressure of April from 24 years' registers ...	29·752		
The highest pressure in the month	29·984	10th	22h.
The lowest pressure in the month	29·474	29th	16h.
The range of pressure	0·510		
	Hours.		
The total number of hours of bright-sunshine during the month	251·5		
The maximum possible number of hours of sunshine ...	378·9		
	⊖		
The mean temperature of the month	86·3		
The average temperature of April from 24 years' registers ...	84·7		
The highest temperature in the month	101·6	25th.	
The lowest temperature in the month	66 6	3rd.	
The range of temperature during the month	35·0		
The mean daily range of temperature	19·8		
The greatest range of temperature in one day	32·0	3rd.	
	Per cent.		
The mean humidity of the month	70		
The average humidity of April from 24 years' registers ...	69		
	Inches.		
The mean vapour tension of the month	0·862		
The average vapour tension of April from 9 years' registers ..	0·861		
The mean cloud proportion of the month	2 65		
The average cloud proportion of April from 12 years' registers	2·65		
	Inches.		
The total rainfall of the month	1·31		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the guage about 52 feet above the ground)	1·26		
The average fall of April from 48 years' registers ...	2·81		
The greatest fall in 24 hours	0·84	11th.	
	Days.		
The number of rainy days in the month	4		
The average number of rainy days in April from 24 years' registers	8		
	●		
The mean maximum equilibrium temperature of solar radiation during the month	151·3		
The mean difference of sun and air temperatures	54·9		
The greatest sun temperature	159·2	26th.	
The greatest excess of sun over air temperature	59·6	26th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	72 3		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	4·5		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	8 7	4th.	
	Miles.		
The mean movement of the wind per day	144·9		
The greatest movement of the wind in one day	287·0	17th.	
The greatest movement of the wind in one hour	23·0	10th	10 to 11 P.M.

The number of hours with winds from each of the 8 points—

N. 7, NE. 6, E. 5, SE. 21, S. 189, SW. 353, W. 80, NW. 56, Calm 33.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0·2° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 6th May 1889.

Results of the Meteorological Observations taken at the Alipore Observatory from 28th April to 4th May 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
April	28th	155·3	10·5	29·586	89·3	100·5	19·4	81·1	81·1	0·956	77·9	71	SW and SSW ...	218	Nil	Chiefly clear.
,,	29th	157·4	8·4	·551	90·0	101·1	19·3	81·8	82·4	1·006	79·4	72	SW, S and SSW ...	249	,,	Clear.
,,	30th	154·0	8·7	·579	89·1	96·4	14·3	82·1	82·8	1·041	80·5	76	SW and SSW ...	257	,,	Chiefly clear.
May	1st	153·9	9·1	·571	88·8	95·5	13 0	82·5	82·3	1·017	79·7	75	S, SW and SSW ...	320	,,	Partially cloudy.
,,	2nd	161·2	10·0	·622	90·2	101·8	19·7	82·1	81·6	0·965	78·2	68	SW and SSW ...	273	,,	Chiefly clear.
,,	3rd	158·5	9·0	·699	88·4	95·9	12·7	83·2	80·9	·955	77·8	71	SSW and SW ...	309	Not measurable.	Chiefly cloudy, d, t.
,,	4th	159·5	9·0	·684	89·8	101·7	19·7	82·0	80·0	·890	75·7	63	SW and SSW ...	290	Nil	Clear.

	Inches.
The mean pressure of the seven days	29·613
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·712
	Hours.
The total number of hours of bright sunshine	64·7
The maximum possible number of hours of sunshine	90·5
	°
The mean temperature of the seven days	89·4
The average temperature of the corresponding period for 24 years, S.-G.'s Office	85·5
The extreme variation of temperature	20·7
The maximum temperature	101·8
	Miles.
The highest velocity of the wind in one hour	22
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	5
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	72
	Inches.
The total fall of rain from 28th April to 4th May 1889 ...	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·70
The total fall from 1st January to 4th May 1889	4·85
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	5·25

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

d drizzling rain, t thunder.

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 6th May 1889.

Abstract of the Results of the Barometrical and Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of April 1889.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	29·819	
	°	
The mean temperature during the month	87·5	
The highest temperature during the month	103 0	6th.
The lowest temperature during the month	67·7	11th.
The absolute range of temperature during the month	35·3	
The mean daily range of temperature during the month ...	20·7	
The greatest range of temperature in one day during the month ...	31·6	3rd
	%	
The mean 10 A.M. humidity during the month	61	
	Inches.	
The mean 10 A.M. vapour tension during the month	·870	
The total rainfall of the month	1·87	
The greatest fall in 24 hours	1·44	11th.
	Days.	
The number of rainy days in the month	4	

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 6*th May* 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 28th April to 4th May 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours
1889		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
April	28th	29 658	90·6	101·4	21·6	79·8	93·0	82·5	·970	78 3	63	0 20
,, ..	29th ..	606	92·1	102 2	20 2	82 0	93 6	84·3	1·052	80 8	66	.. .
,,	30th	·642	89 9	97 2	14 6	82 6	92·4	84·5	1 077	81 5	71	... .
May ..	1st .	·643	89 9	97·0	14·2	82·8	91·6	83·5	1·040	80 4	70	... .
,, .	2nd	·678	92 7	103·0	20·7	82·3	94·6	84·5	1 049	80 7	65	. .
,, ...	3rd .	·754	90 2	97·0	13·7	83 3	93·0	84·0	1·045	80 6	67	.. .
, .	4th ..	·764	92·8	102·5	19 5	83 0	93·6	83 5	1·010	79 5	64	......

	Inches.
The mean 10 A.M. pressure of the seven days	29·678
	°
The mean temperature of the seven days	91·2
The extreme variation of temperature	23·2
The maximum temperature	103·0
	%
The mean 10 A.M. relative humidity of the seven days	67
	Inches.
The total fall of rain from 28th April to 4th May 1889	0·20

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 6*th May* 1889.

JOHN ELIOT,
Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE table annexed to this memorandum furnishes the following particulars in connection with the registration of births and deaths in the principal municipalities in Bengal during the week ending 20th April 1889 :—

1. Births were registered at the rate of 19·7 per 1,000 of the living, against 21·5 per 1,000 during the preceding week ending 13th April, and deaths at 21· against 21·5 per 1,000, indicating a retrogression in the registration of births.

2. The above events were returned in the highest proportions from the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Comillah	46·2	Purneah	93 5
Durbhanga	45·6	Rampore Beauleah	47·3
Rampore Beauleah	42·0	Gya	43·7
Monghyr	38·0	Puri	35 7
Serampore	35·3	Darjiling	32·6
		Serampore	31·4
		Comillah	30·8

3. From the figures in the following table, it appears that, during the week under notice, the mortality from the diseases recorded under the head "Other causes" declined to a small extent; and that the mortality under the other heads was very nearly the same as in the preceding week :—

	Ratio per *mille* during the weeks ending— 20th April 1889.	13th April 1889.
Cholera	4·2	4·0
Small-pox	·3	·1
Fever	8·3	8 5
Bowel-complaints	2·0	2·1
Injury	·5	·2
Other causes	5·6	6·5

4. Of the diseases above indicated, cholera, fever and "other causes" proved most fatal to life in the following Municipalities :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Purneah	55·4	Darjiling ...	32·6	Puri	16·8
Rampore Beauleah ...	18·4	Purneah ...	24·2	Serampore ...	13·7
Puri	16·8	Rampore Beauleah ...	21·0	Gya	10·2
Gya	11·6				
Dacca	9·1				
Howrah	3·4				

5. With regard to mortality referable to *Sex*, *Class* and *Age*, the rates of deaths stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	21·0	Christians	19·7	Under 1 year ...	164·8
Females	21·1	Hindus	21·8	1 and under 5 years ...	31·7
Ratio of male deaths to every 100 female deaths	107	Mahomedans ...	19·2	5 " 10 " ...	17·8
				10 " 15 " ...	8·6
				15 " 20 " ...	11·5
				20 " 30 " ...	11·7
				30 " 40 " ...	10·3
				40 " 50 " ...	17·7
				50 " 60 " ...	20·6
				60 years and upwards ...	51·8

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 6*th May* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 20th April 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.				Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,063	16,017	34,080	3	4	7	4·6	6·1	10·7	75	2	...	3	1	..	3	9	3·0	...	4·6	1·5	...	4·6	13·7	18·3	5	4	14·4	13·0	125
Midnapore... ...	Midnapore	16,927	16,633	33,560	1	1	2	1·5	1·5	3·1	100	...	...	3	1	...	4	8	...	...	4·6	1·5	...	6·2	12·4	13·9	6	2	18·4	6·3	300
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	16	3	19	21·5	4·0	25·5	533	3	..	6	2	.	2	13	4·0	..	8·1	2·7	...	2·7	17·5	25·5	8	5	21·7	13·3	160
Serampore ...	Serampore	13,559	12,937	26,496	9	9	18	17·6	17·6	35·3	100	2	...	6	1	...	7	16	3·9	...	11·8	2·0	...	13·7	31·4	25·5	9	7	34·5	23·1	128
	Utterpara	3,046	2,464	5,510	1	...	1	9·4	..	9·4	No female birth.	1	..	.	1	..	1	3	9·4	...		9·4	...	9·4	28·3	9·4	2	1	34·1	21·1	200
Howrah	Howrah	53,153	37,660	90,813	22	14	36	12·6	8·0	20·6	157	6	...	7	5	3	4	25	3·4	...	4·0	2·9	1·7	2·3	14·3	19·5	12	13	11·7	18·0	92
	Bali	7,836	6,979	14,815	...	...	...	...	...	...	......	...	...	2	...	.	...	2	.	...	7·0	...	...	...	7·0	21·1	1	1	6·6	7·5	100
Nuddea	Kishnaghur	13,263	14,214	27,477	3	4	7	5·7	7·5	13·2	75	2	...	4	...	..	3	9	3·8	...	7·5	...	...	5·7	17·0	17·0	5	4	19·6	14·6	125
	Ranaghat	4,028	4,655	8,683	...	...	...	...	...	..	......	...	...	..	..	...	...	...	..	...	...	...	...	...	...	......	..	...	...	...	....
	Santipore	13,708	15,979	29,687	6	5	11	10·5	8·8	19·3	120	1	...	3	..	1	..	5	1·8	...	5·2	...	1·8	...	8·8	15·8	3	2	11·4	6·5	150
Jessore	Jessore	4,830	3,665	8,495	..	1	1	...	6·1	6·1	No male birth.	...	...	...	...	...	...	...	.	...	..	...	...	...	...	18·4	...	...	...	..	......
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	8	8	16	21·0	21·0	42·0	100	7	...	8	..	1	2	18	18·4	...	21·0	..	2·6	5·3	47·3	39·4	8	10	38·6	57·6	80
Darjiling	Darjiling*	5,029	2,947	7,976	...	2	2	.	13·0	13·0	No male birth	...		5	.	...	.	5	..	...	32·6	...	...	..	32·6	......	5	..	51·7	...	No female death.
Dacca	Dacca	42,782	37,379	80,161	20	17	37	13·0	11·0	24·0	117	14	2	10	3	...	9	38	9·1	1·3	6·5	1·9	...	5·8	24·7	20·1	16	22	19·4	30·6	72
	Narainganj	7,605	4,956	12,561	1	1	2	4·1	4·1	8·3	100	...	...	...	2	...	1	3	...	...	.	8·3	...	4·1	12·4	29·0	1	2	6·8	21·0	50
Chittagong ...	Chittagong	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150	...	...	3	3	...	3	9	...	...	7·0	7·0	...	7·0	21·1	14·1	4	5	15·6	29·6	80
Tipperah	Comillah	8,153	5,353	13,506	7	5	12	26·9	19·3	46·2	140	3	...	3	.	..	2	8	11·5	...	11·5	..	...	7·7	30·8	27·0	4	4	25·5	38·9	100
Patna	Patna City	78,762	81,475	160,237	20	12	32	6·5	3·9	10·4	166	5	2	23	9	3	8	50	1·6	·6	7·5	2·9	1·0	2·6	16·2	15·9	32	18	21·1	11·5	177
Gya	Gya	38,290	37,831	76,121	9	11	20	6·1	7·5	13·7	81	17	1	29	2	..	15	64	11·6	7	19·8	1·4	..	10·2	43·7	40·3	33	31	44·8	42·6	106
Shahabad	Arrah	20,960	22,505	43,465	2	5	7	2·4	6·0	8·4	40	...		1	1	.	3	5	.	...	1·2	1·2		3·6	6·0	4·8	3	2	7·4	4·6	150
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	15	7	22	18·2	8·5	26·8	214	...	...	6	3	1	5	15			7·3	3·6	1·2	6·1	18·2	10·9	8	7	13·0	18·5	114
Durbhanga... ...	Durbhanga	33,774	32,322	66,096	35	23	58	27·5	18·1	45·6	152		2	16	4	..	8	30		1·6	12·6	3·1	...	6·3	23·6	25·2	11	19	16·9	30·6	57
Sarun	Chupra	26,044	27,205	53,249	9	7	16	8·8	6·8	15·6	128	.		6	1	..	8	15	.		5·8	1·0		7·3	14·6	16·6	6	9	12·0	17·2	66
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	13	8	21	11·3	7·2	19·0	163	..	.	6	.		9	15		...	5·4	..	...	5·1	13·6	24·4	5	10	8·8	18·7	50
Monghyr	Monghyr	28,154	29,366	57,520	26	16	42	23·5	14·5	38·0	162	...	..	13	2	1	5	24	.	...	11·3	1·5	·9	7·2	21·7	19·9	9	15	16·6	26·6	60
Purneah .. .	Purneah	8,463	6,553	15,016	5	2	7	17·3	6·9	24·2	250	16	.	7	1	...	3	27	53·4	...	24·2	3·5	...	10·4	93·5	76·2	15	12	92·2	95·2	125
Puri	Puri	13,247	11,537	24,784	4	1	5	8·4	2·1	10·5	400	8	..	1	.	.	8	17	16·8	..	2·1	.	...	16·8	35·7	46·1	13	4	51·0	18·0	325
	Total ...	555,685	515,457	1,071,142	238	168	406	11·6	8·1	19·7	141	87	7	171	42	10	116	433	4·2	·3	8·3	2·0	·5	5·6	21·0	21·5	224	269	21·0	21·1	107

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

Districts	Names of Municipalities	13					14					15										16									
		Mortality according to—																													
		Class										Age.																			
		Deaths among—					Ratio per 1,000 of Population per annum					Deaths.										Ratio per 1,000 of Population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	..	7	2	...	...		15 4	10 1			2	.		..		2	..	2	2	1	157·6	......	.	..	.... .	13·1	... .	23·5	42·4	35·1
Midnapore	Midnapore	..	7	1	...	...	...	14 0	7·2	..	.	1	2	.	1		..	1	1	1	1	70·0	44·2	......	17·1	......	.	9 4	14·0	25·2	28·4
Hughli	Hughli and Chinsurah ...	..	11	2	...		.	18·1	15 2	...		3	.	2	...	.	1	1	2	3	1	165·4	... ..	29·9	.. .	.....	6 8	7 4	20·2	47·8	20·7
Serampore	Serampore	...	15	1	...	...	.	30·9	55·4	.	..	5	2	3	2	1	1	...	.	...	2	366·2	57·6	62·1	46·8	23·8	9·7	......	.. .	......	74·8
	Utterpara	...	3	.	.	.		29·3	.	..	..	1	...		.	...	.	...		1	1	323·0	...	. .	......	......	......	....	... ..	141·3	200·0
Howrah	Howrah	...	19	6		...	..	14 5	15·2	..	..	...	3	2	1	1	9	2	3	.	4	......	28·2	16·5	7 9	7·1	20 6	5·4	13·3	...	55·5
	Bali	...	2		...	...	..	7·8	.	...	...	...	..	1	...	...	1	...	...		...	.. . .	...	48·8	......	... .	15·5	..	.. ..	......	......
Nuddea	Kishnaghur	1	6	2	...	...	91·7	16 7	12 6	. .	..		1		..	..	2	2	2	1	1	....	21·1	......	......	...	21·6	24·3	31·9	24·7	30·1
	Ranaghat	...	...		...	...	.	.		.	.	...			..	..	...	...	.	...	.	. ....	.. ..	......	......	..	. . ..	......	..	......	......
	Santipore	...	4	1	...	...	...	10 0	5·8	...	...	1	1	...	.			...	1	. .	2	61·5	17·9	... ..	...	......		......	14·8	......	53·0
Jessore	Jessore	...	...	...	...	...		...		..	...	...	.		.. .	...	...	...		...	...	.. .	......	..	......	......	......	.. ..	......	..	. ...
Rajshahye	Rampore Beauleah	.	10	9	..	...	.	53 5	42·4	...	.	3	3	1	1	2	1	1	1	4	1	354·2	110·0	25·0	28·9	62·6	12·5	14·4	21·2	167·6	54·0
Darjiling	Darjiling		5	..	..	. .	...	56·6	..	...	...	1	1	...	..	...	...	1	1	1	...	429·8	80·9	......	..	...	...	36·3	75·1	213 1	......
Dacca	Dacca	...	21	17	...	...	. .	27·1	22·5		...	6	6	6	1	5	4	4	1	3	2	165·2	42 3	31·4	6·5	35·6	13·6	17·8	6·2	32·9	18·7
	Naraingunj	.	1	2	...	. .	..	8 2	16·9		...	2	. .	.	...	..			1	...	...	372·8	......	... .	.... .	......	..	.	37·3	......	......
Chittagong	Chittagong	1	3	5	...	...	65·3	26 9	17·0	.	...	.	.	...	..	..	1	3	2	1	2	......	......	...	......	.	11·2	46·8	46·1	47 9	130·7
Tipperah	Comillah	...	2	6	...	...	...	17·5	42·2	...	. .	2	1	1	...	1	2	...	...	1	. .	350·2	39·8	31·9	.... .	41·3	37·7	. .	......	64·9	. . .
Patna	Patna City	...	38	12	...	...		16·6	15 3	...	. .	9	10	3	1	..	4	2	6	4	11	108 6	35 6	9·3	3·6	......	7·2	4·5	16·6	14·7	41·4
Gya	Gya	...	48	16	...	..	...	41·6	51 7	..	...	11	8	8	7	1	4	4	5	6	10	319·6	65·5	59·5	54·1	9·9	14·1	16 3	26·6	47·5	101·0
Shahabad	Arrah	...	3	2	...	...	...	5 0	8·4	...	...	1	1	.	...	.	..	.	2	...	1	40·4	11·7	......	......	...	.....	......	22·2	......	18·0
Mozufferpore	Mozufferpore	1	9	5	...	...	223 2	15 6	20·8	...	...	6	3	.	..	1	1	1	2	...	1	326·7	38·6	......	......	17·2	6·1	7·5	20 8	. ...	21·4
Durbhanga	Durbhanga	...	23	7	...	...	...	24·7	20·7	..	..	7	6	3	.		4	4	1	..	5	233·8	41·0	19·9	. ....	...	15·6	18·6	7·0	......	81·4
Sarun	Chupra	...	11	4	...	...	...	13 9	17·3	..	...	2	2	..	...	1	1	.	2	1	6	72·0	19·6	... .	......	14 6	5 5	.... .	16·6	12 3	89·7
Bhagalpore	Bhagalpore	...	12	3	...	...	...	15·7	9 1	...	...	2	3	1	...	1	1	...	2	...	5	87·1	28·8	8·9	......	12·4	4·8	......	16·2	......	72·2
Monghyr	Monghyr	...	20	5	...	...	...	23·3	16·5	...	...	11	3	1	2	.	3	. .	. .	...	4	385·2	25·1	7·4	18·1	......	15·1	......	. ....	.	58·0
Purneah	Purneah	...	24	3	...	...	...	136·0	27·6	...	.	3	1	5	...	4	3	5	4	...	2	551·2	43·0	164·6	......	209·3	47 5	91·1	112·2	.. ..	128·9
Puri	Puri	...	17	...	...	...	...	36·0	..	...	.	2	.	1	...	. .	3	4	2	2	3	343·2	......	23·2	... ..	......	29·5	51·3	31·3	46·6	86·4
	Total ...	3	321	109	..	...	19·7	21·8	19·2	...	...	81	57	38	16	18	48	35	43	31	66	164·8	31·7	17·8	8 6	11·5	11·7	10·3	17·7	20·6	51·8

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 6th May 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 4th May 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 4th May 1889.			Week ending Saturday, the 5th May 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	163	42,586	601	380	93,321	1,523
Jute	1	200	3	9	11,100	198
Firewood	77	31,475	463	67	27,220	419
Other articles	535	1,17,670	1,801	594	1,33,300	2,145
Total ...	776	1,91,930	2,868	1,050	2,64,941	4,285

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of January 1889, as compared with the same month of the previous year.

STAPLES.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	4,696	7	2,638	......	4,703	2,638	2,065	......
Cotton, raw	......	......	1	.. ...	.....	1	.... .	
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	180	1	148	1	181	149	32	......
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2	156	3	926	158	929	......	771
5.—Others	9	91	16	174	100	190	...	90
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	......	45	......	35	45	35	1	.. ..
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	... ..		. ....	213	582	213	369	......
2.—Gunny bags and cloth	1	....	13	1	1	14	. ...	13
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	48	56	54	28	104	82	22	......
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	86	. .	59	......	86	59	27	...
3.—Others	72	......	108	......	72	108	..	36
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	20	22	72	......	42	72	.. ...	30
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	2	43	2	300	45	302	....	25
3.—Others	115	142	145	90	257	244	13	..
Railway plant and rolling-stock	20	65	116	47	85	163	...	78
Salt	203	..	177	......	203	177	26	.. ...
Sugar—								
1.—Drained	6	677	5	354	683	359	324	.. .
2.—Undrained								
Wood—								
1.—Timber		. ...	11	23	......	34	. ...	34
2.—Firewood								
Tobacco	15	20	30	......	35	30	5	. . .
All other articles of merchandise—								
1.—Unmanufactured	366	313	193	70	679	263	416	... .
2.—Manufactured								
Total ...	5,841	2,220	3,791	2,271	8,061	6,062	3,309	1,310

INCREASES.

	Tons.
Coal	2,065
For railway purposes and B. C. F. services at Nawapara and Khoolna.	
Jute	369
One half of the above increase was in local booking from Khoolna, the remaining half was contributed by Muslandpur, Jhikargachi, Singhia and Nawapara.	
Sugar	324
About two-thirds contributed by Jhikargachi, due to an improved market.	

DECREASES.

Rice	771
There was a decrease of over 600 tons in local booking from Khoolna, due to generally poor outturn in the district.	
Betelnuts	257
The decrease in this commodity is from Khoolna, and in through traffic from the Bengal Central Flotilla, viâ Khoolna.	
The traffic is coming into Calcutta by river, the Bengal Central Flotila running direct boats in preference to giving this railway the traffic at Khoolna.	

CALCUTTA, *the* 30*th* *April* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of March 1889, *as compared with the same month of the previous year.*

STAPLES.	1888.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Ton
Coal	556	......	389	......	856	389	......	467
Cotton, raw	......	......	7	......	......	7	7	.. ...
Cotton piece-goods—								
1.—European	54	1	33	......	55	33	.....	22
Jute—								
2.—Gunny bags and cloths	10	10	9	5	20	14	... ..	6
Grains—								
1.—Wheat	......	7	......	12	7	12	5	......
2.—Rice	26	1,108	10	231	1,134	241	......	893
4.—Gram	...	23	... ..	28	23	28	5	.....
5.—Others	15	34	15	4	49	19	......	30
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	....	5	... ..	......	5	.....	......	5
2.—Skins of sheep, goats and small animal—								
a.—Dressed	... ..	......	.. .	1	......	1	1	.....
b.—Undressed	.. ...	1	.....	......	1	... ..	......	1
Lac—								
1.—Stick	2	......	......	......	2	......	......	2
Leather, manufactured	4	. ....	8	......	4	8	4	......
Liquors—								
1.—Beer	1	.. ...	1	... ..	1	1	. ...	......
2.—Wines	2	....	......	.. ..	2	. ....	......	
Metals—								
2.—Iron	3	... .	6	......	3	6	3	..
4.—Others	10	2	2	1	12	3	...	9
Oils—								
1.—Castor	......	......	1	......	......	1	1	...
2.—Kerosine	2	.. ...	1	......	2	1	... ..	1
3.—Others	4	. ..	9	......	4	9	5	.... .
Provisions—								
1.—Ghee	4	......	2	......	4	2	. ....	2
2.—Dried fruits and nuts	......	......	4	......	.....	4	4	....
3.—Others	7	...	27	......	7	27	20	......
Railway plant and rolling-stock	11	9	88	12	20	100	80	......
Salt	49	. . .	28	......	49	28	......	21
Oilseeds—								
1.—Linseed	1	12	3	49	13	52	39	. .
2.—Mustard and rape	249	... ..	122	.....	249	122	......	127
6.—Others	25	22	8	... ..	47	8	.....	39
Silk, raw—								
2.—Indian	33	27	17	20	60	37	...	23
Silk piece-goods—								
2.—Indian	.. ..	......	.....	5	. ....	5	5	..
Stone and lime	11	...	27	......	11	27	16	.....
Sugar—								
1.—Drained	23	. ...	32	......	25	32	9	.....
2.—Undrained	5	. ....	1	... ..	5	1	...	4
Tobacco	17	1	16	4	18	20	2	..
Wool—								
1.—Raw	2	.... .	1	.. ...	2	1	. .	1
2.—Piece-goods—								
b.—Indian	1	......	......	......	1	......	... .	1
Paper and pasteboard	......	......	5	......	......	5	5	......
All other articles of merchandise	118	26	88	22	144	110	.	34
Total	1,545	1,288	960	394	2,833	1,354	211	1,685

INCREASE.

	Tons.
Provisions—	
(3) Others	20
This increase is due to greater imports of potatoes.	
Railway plant and rolling-stock	80
This increase is due to more materials carried during this month.	
Oilseeds—	
(1) Linseed	39
This increase is due to greater imports from foreign Railways for high price in the local market.	
Stone and lime	16
This increase is due to greater imports for building purposes.	

DECREASE.

Coal	467
This decrease is due to previous stock not being exhausted.	
Cotton piece-goods—	
(1) European	22
This is due to less demand.	
Grains—	
(2) Rice	893
(6) Others	30
The decrease under these heads is due to less exports from intermediate stations, owing to high price in local market.	
Salt	21
This decrease is due to previous stock not being exhausted.	
Oilseeds—	
(2) Mustard and rape	127
(6) Others	39
The decrease under these heads is due to dull market.	
Silk, raw—	
(2) Indian	23
This is due to dull market.	

The 1st *May* 1889.

S. FINNEY,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, on 1,513½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	284,086	2,94,509 11 0	28,90,912 10	6,51,956 4 0	16,647 15 0	9,63,113 14 0	65,308	102,700¾	168,008¾
Or per mile of railway ...	...	194 9 5	...	430 12 2	11 0 0	636 5 7	......	......	......
For previous 16 weeks of half-year ...	4,176,666	48,19,519 0 0	4,41,72,822 10	96,81,318 5 4	2,54,186 7 8	1,47,55,023 13 0	1,052,404½	1,528,829	2,581,233¼
Total for 17 weeks ..	4,460,752	51,14,028 11 0	4,70,63,734 20	1,03,33,274 9 4	2,70,834 6 8	1,57,18,137 11 0	1,177,712¼	1,631,529¾	2,749,242¼
Comparison.									
Total for corresponding week of previous year .	273,576½	2,78,735 8 5	30,13,169 0	6,82,404 15 6	10,123 1 2	9,80,263 9 1	65,651	109,497	175,148
Per mile of railway corresponding week of previous year .	.	184 2 2	... ..	450 12 10	12 10 2	647 9 2	... ..	......	......
Total to corresponding date of previous year	4,553,205½	52,64,428 8 10	4,84,57,229 20	1,12,69,654 8 4	3,79,264 1 1	1,69,13,347 2 3	1,125,340	1,794,080	2,919,370

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,51 "	9,80,264	648	1,513½	9,63,114	636	1,513½	39,39,691	651	1,513½	36,61,031	605	......	2,78,660

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts.	Weight carried.	Receipts			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	11,616	5,466 0 0	47,908 30	3,214 7 0	72 0 0	8,752 7 0	2,227¼	758	2,985¼
Or per mile of railway	203	95 8 11	8[illegible]7 30	56 3 2	1 4 2	153 0 3	......	......	......
For previous 16 weeks of half-year	224,105	1,22,906 4 0	5,85,341 30	35,835 9 0	655 6 10	1,59,397 3 10	30,143¾	8,936	39,079¾
Total for 17 weeks ...	235,721	1,28,372 4 0	6,33,250 20	39,050 0 0	727 6 10	1,68,149 10 10	32,371¼	9,694	42,065¼
Comparison.									
Total for corresponding week of previous year	13,683	6,088 11 1	49,608 30	4,339 3 0	34 3 9	10,462 1 10	1,571	823	2,394
Per mile of railway corresponding week of previous year ...	239	106 7 2	867 20	75 13 9	0 9 7	182 14 6	... .	. . ..	......
Total to corresponding date of previous year	252,833	1,34,204 12 1	6,80,752 0	45,872 6 0	750 14 3	1,80,828 0 4	30,312	11,537	41,849

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	10,462	183	57½	8,752	153	57½	41,792	183	57½	40,822	178	......	970

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, on 12 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,189	533 0 0	16,640 30	546 10 0	9 0 0	1,088 10 0	338½	155	93½
Or per mile of railway	......	44 6 8	......	45 8 10	0 12 0	90 11 6	......	......	......
For previous 16 weeks of half-year	44,295	7,480 2 0	2,90,195 20	6,658 0 9	154 1 8	14,292 3 8	5,544½	2,210½	7,755
Total for 17 weeks ...	47,484	8,013 2 0	3,06,836 10	7,204 10 0	163 1 8	15,380 13 8	5,883½	2,365½	8,248½
Comparison.									
Total for corresponding week of previous year	3,768	622 11 9	24,004 20	852 3 0	11 0 3	1,485 15 0	245	248	493
Per mile of railway corresponding week of previous year ..	......	51 14 4	......	71 0 3	0 14 8	123 13 3	......	......	......
Total to corresponding date of previous year	51,393	8,793 0 3	3,73,316 10	8,321 14 0	173 2 0	17,198 6 3	5,546	2,835	8,381

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889.	Total decrease 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,486	124	12	1,089	91	12	4,724	98	12	3,824	80	......	900

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,581	4,919 0 0	11,358 0	432 14 0	5 7 0	5,357 5 0	914	54	968
Or per mile of railway	......	221 1 3	......	19 7 3	0 3 11	240 12 5	......	......	......
For previous 16 weeks of half-year	370,742	98,109 12 0	1,51,422 10	5,436 15 0	104 15 10	1,03,651 10 10	14,773	1,010	15,783
Total for 17 weeks ...	390,323	1,03,028 12 0	1,62,780 10	5,869 13 0	110 6 10	1,09,008 15 10	15,687	1,064	16,751
Comparison.									
Total for corresponding week of previous year	21,627	5,562 8 8	6,379 20	243 11 0	8 12 0	5,814 15 8	906	62	968
Per mile of railway corresponding week of previous year ...	......	250 0 0	......	10 15 3	0 6 4	261 5 7	......	......	......
Total to corresponding date of previous year	390,821½	1,03,476 7 7	1,43,602 20	5,257 5 0	123 2 6	1,08,856 15 1	15,560	1,336	16,896

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	5,816	261	22¼	5,357	241	22¼	33,003	371	22¼	29,230	328	......	3,773

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 20th April 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	125,320	64,860 0 0	4,78,410 0	74,820 0 0	12,700 0 0	1,52,380 0 0	21,269	22,270	43,539
Or per mile of railway ..	186	96 0 0	708 0	111 0 0	†4 0 0	211 0 0	...	....	...
For previous 15 weeks of half-year	2,220,666	11,72,112 0 0	75,71,474 0	12,73,964 0 0	2,55,225 0 0	*27,01,301 0 0	320,648	366,618	687,261
Total for 16 weeks ...	2,345,986	12,36,972 0 0	80,44,914 0	13,48,784 0 0	2,67,925 0 0	28,53,681 0 0	341,917	388,883	730,800
COMPARISON.									
Total for corresponding week of previous year	133,545	56,511 0 0	3,99,520 0	60,302 0 0	9,776 0 0	1,26,589 0 0	21,319	22,323	43,642
Per mile of railway corresponding period of previous year ..	198	84 0 0	594 0	90 0 0	† ...	174 0 0	..	......	......
Total to corresponding date of previous year	2,261,247	11,87,794 0 0	86,40,058 0	12,40,284 0 0	2,51,257 0 0	26,79,335 0 0	352,489	393,155	745,644

* Audited up to week ending 16th March 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,26,589	188	673	1,52,380	226	673	3,92,513	194	673	4,48,960	222	56,447	.. ..

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,680	9,630 0 0	43,880 0	3,100 0 0	50 0 0	12,840 0 0	3,597	2,075	5,672
Or per mile of railway ..	205	77 0 0	251 0	25 0 0	1 0 0	103 0 0	..	.....	..
For previous 15 weeks of half-year	†426,016	1,52,179 0 0	†8,34,181 0	45,675 0 0	4,447 0 0	*2,02,301 0 0	53,015	29,550	82,565
Total for 16 weeks ...	451,696	1,61,809 0 0	8,78,061 0	48,835 0 0	4,497 0 0	2,15,141 0 0	56,612	31,625	88,237
COMPARISON.									
Total for corresponding week of previous year ..	24,603	8,311 0 0	36,325 0	2,305 0 0	168 0 0	10,844 0 0	3,419	2,031	5,450
Per mile of railway corresponding period of previous year .	197	67 0 0	291 0	19 0 0	1 0 0	87 0 0	.....	.....	.....
Total to corresponding date of previous year	421,346	1,43,621 0 0	8,45,213 0	52,381 0 0	3,804 0 0	1,99,806 0 0	53,747	31,784	85,531

* Audited up to week ending 16th March 1889.
† Ditto ditto 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,844	87	125	12,840	103	125	33,060	88	125	37,200	99	4,140	. ..

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th April 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	12,500	4,220 0 0	12,980 0	640 0 0	90 0 0	4,950 0 0	2,502	602	3,104
Or per mile of railway	145	49 0 0	151 0	7 0 0	1 0 0	57 0 0	....	...	.
For previous 15 weeks of half-year	222,005	73,640 0 0	2,00,420 0	15,919 0 0	2,775 0 0	*92,334 0 0	35,848	9,858	45,706
Total for 16 weeks ...	234,505	77,860 0 0	2,12,400 0	16,559 0 0	2,865 0 0	97,284 0 0	38,350	10,460	48,810
Comparison									
Total for corresponding week of previous year	19,768	4,710 0 0	3,089 0	432 0 0	42 0 0	5,184 0 0	2,502	642	3,144
Per mile of railway corresponding period of previous year	230	55 0 0	36 0	5 0 0	. .	60 0 0	......	......	.
Total to corresponding date of previous year	228,910	69,803 0 0	1,80,992 0	14,432 0 0	2,823 0 0	87,058 0 0	39,811	9,893	49,704

* Audited up to week ending 16th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,184	60	86	4,950	57	86	15,398	60	86	15,548	60	150	.

ASSAM-BEHAR STATE RAILWAY.

PURNEAH SECTION.

Approximate Return of Traffic for week ended 20th April 1889, on 38 miles open.

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated)	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week . .	2,280	810 0 0	28,310 0	2,120 0 0	20 0 0	2,950 0 0	532	532	1,064
Or per mile of railway .	60	21 0 0	745 0	56 0 0	1 0 0	78 0 0		.... ..	
For previous 15 weeks of half-year	41,590	16,994 0 0	3,88,060 0	26,001 0 0	3,113 0 0	*46,108 0 0	7,852	7,852	15,704
Total for 16 weeks ...	43,870	17,804 0 0	4,16,370 0	28,121 0 0	3,133 0 0	49,058 0 0	8,384	8,384	16,768
Comparison.									
Total for corresponding week of previous year	3,190	1,088 0 0	28,188 0	1,973 0 0	21 0 0	3,082 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	82	28 0 0	723 0	51 0 0	......	79 0 0	....	.	.
Total to corresponding date of previous year . ..	49,517	17,037 0 0	4,36,059 0	32,204 0 0	768 0 0	50,069 0 0	8,736	8,736	17,472

* Audited up to week ending 16th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 21st April 1888.			Receipts for week ending 20th April 1889.			Total receipts from 1st April 1888 to 21st April 1888.			Total receipts from 1st April 1889 to 20th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,082	79	38	2,950	78	39	9,662	83	38	8,367	73	......	1,295

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 27th April 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,810	964 0 0	5,257 0	400 0 0	9 0 0	1,373 0 0	509	254	763
Or per mile of railway	103	35 0 0	193 0	15 0 0	......	50 0 0	......	......	......
For previous 15 weeks of half-year	54,488	20,230 0 0	1,88,344 0	11,214 0 0	1,048 0 0	32,492 0 0	7,999	7,503	15,502
Total for 16 weeks ...	57,298	21,194 0 0	1,93,601 0	11,614 0 0	1,057 0 0	33,865 0 0	8,508	7,757	16,265
Comparison.									
Total for corresponding week of previous year	3,167	1,197 0 0	9,437 0	637 0 0	12 0 0	1,846 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	116	44 0 0	346 0	23 0 0	1 0 0	68 0 0	......	......	......
Total to corresponding date of previous year	55,794	20,527 0 0	2,78,482 0	15,562 0 0	359 0 0	36,448 0 0	8,653	8,010	16,663

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,846	68	27½	1,373	50	27½	7,421	68	27½	6,023	55	......	1,393

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 27th April 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	44,448	16,189 0 0	1,93,987 0	18,117 0 0	4,102 0 0	38,408 0 0	5,331	5,007	10,338
Or per mile of railway	163	59 0 0	710 0	66 0 0	3 0 0	128 0 0*	......	......	......
For previous 15 weeks of half-year	677,849	2,57,802 0 0	21,90,597 0	2,06,912 0 0	49,175 0 0	5,13,889 0 0	86,949	85,975	172,924
Total for 16 weeks ...	722,297	2,73,991 0 0	23,84,534 0	2,25,029 0 0	53,277 0 0	5,52,297 0 0	92,280	90,982	183,262
Comparison.									
Total for corresponding week of previous year on 259 miles open	47,181	17,332 0 0	1,86,117 0	20,562 0 0	3,352 0 0	41,246 0 0	6,107	7,189	13,296
Per mile of railway corresponding week of previous year ...	182	67 0 0	719 0	80 0 0	1 0 0	148 0 0*	......	......	......
Total to corresponding date of previous year	736,888	2,89,488 0 0	33,18,046 0	3,67,744 0 0	53,992 0 0	7,11,224 0 0	106,296	135,591	241,887

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	41,246	159	273	38,408	141	259	1,53,443	148	273	1,45,354	133	....	8,089

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 8th May 1889.

REGISTERED No. 29.

No. 20 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MAY 15, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

RESOLUTION ON THE REPORT ON THE WORKING OF THE CHITTAGONG HILL TRACTS POLICE FOR 1888.

POLITICAL.

Calcutta, the 10th May 1889.

READ—

Letter No. 51HP—VI-2, dated Chittagong, the 12th March 1889, and enclosure, from the Commissioner of Chittagong, submitting the departmental report on the working of the police of the Chittagong Hill Tracts for the year 1888.

Read also—

The Report for 1887 and the Resolution recorded thereon.

The submission of this report has been somewhat delayed, but the very heavy work entailed on Mr. Murray by the despatch of a military expedition to the Chittagong Hill Tracts sufficiently explains this. The presence of troops in the district has caused constant changes in the disposition of the Frontier Police; consequently the position of the police on 31st December was purely temporary.

2. The force was maintained at its former strength of 539 throughout the year, at the close of which there were 18 vacancies as against 19 on 31st December 1887. 44 Goorkhas were enlisted during the year. The recruiting party sent to Chumparun failed to enlist the full number of 50 owing to the order prohibiting the enlistment of Muggurs and Gurungs.

3. Rupees 430 out of a sanctioned grant of Rs. 570 for scouts were expended in rewarding hillmen for assistance rendered by them in the pursuit and detection of those concerned in the late raids within our frontier.

4. It is unfortunate that the District Superintendent of Police should not have found himself able to exercise proper supervision over the firing practice of his men. This is a matter to which the Lieutenant-Governor attaches very great importance.

5. The numbers of those who have been struck off the roll after expiration of leave have again increased, and it has been found that the attempt made by the Government to induce and assist men to return, by giving them free passes by rail and steamer, has not so far been successful. The system has been modified, as now only men actually returning from leave will be reimbursed the price of their railway and steamer journeys. After a year's trial it will be determined whether this concession should be continued or not.

6. The health of the force has been bad throughout the year, and the numbers of sick in hospital and the rate of mortality have increased, as compared with last year. This is partly due to an epidemic of cholera which caused nine deaths, there being 45 admissions into hospital for cholera as against 2 in 1887 and 6 in 1886. The figures below give a comparative statement for the last three years:—

	1886.	1887.	1888.
Deaths	19	14	27
Admissions into hospital	2,409	2,361	2,609
Daily average of sick	44	52	53

7. The carriage of provisions, baggage and stores by a Coolie Corps has been abandoned, as it is said to have been found more costly than the old contract system, besides adding considerably to the duties of the police, owing to their responsibility for the conveyance and guard of every package that had to be transported. The former system has therefore been reverted to, and rates fixed for the season. There are still, however, some coolies employed directly under Government in the making of roads, including a party of 168 Sonthals imported during the past year, who are said to have proved themselves excellent workers, and to be desirous of bringing their wives and children to settle in the district.

8. The civil police are mainly occupied with work elsewhere done by peons, as there is no other establishment available in the Chittagong Hill Tracts. As there is very little crime, this does not interfere with the primary duties of the force, and in the peculiar circumstances of the Tracts, it is found desirable to have one establishment for all purposes.

9. In paragraph 20 an account is given of the raids on the frontier, and of the duties in which the men of the Frontier Police were engaged during the past year; but as these subjects have been dealt with fully in special reports and orders; it is needless to discuss them in detail here. It may be remarked, however, that the experience of the year has shown conclusively that the arrangements made hitherto for the protection of the frontier have been wholly inadequate to prevent the commission of outrages by the Hill Tribes beyond, and that a radical change of policy has now become a necessity.

10. At the same time the Lieutenant-Governor highly appreciates the promptitude and energy with which the perpetrators of the various outrages were pursued and the good service done by the portion subsequently employed with the Lushai Expeditionary Force. He continues to hear on all sides expressions of approval of the very excellent work of the officers and men of the Frontier Police. In the very arduous labours that have lately fallen to their share they have never been found wanting in a single material point, and it is a matter for congratulation that the Government should have ready to hand for the peculiar work of the Chittagong Hill Tracts so efficient and loyal a body of men. In conclusion Sir Steuart Bayley wishes to take this opportunity of recording his high appreciation of the ability, energy, and zeal displayed by the District Superintendent Mr. C. S. Murray in conducting the very arduous duties which devolved on him during the year.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of the Chittagong Division for information.

Ordered also that the Resolution be published in the *Gazette*.

By order of the Lieutenant-Governor of Bengal,

J. WARE EDGAR,

Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE HEALTH OFFICER OF THE PORT OF CALCUTTA FOR THE YEAR 1888.

No. 1061Marine.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

MARINE.

Dated Calcutta, the 13th May 1889.

RESOLUTION.

READ—

A letter No. 2322, dated the 28th March 1889, from the Sanitary Commissioner, Bengal, submitting the report of the Health Officer of the Port of Calcutta for the year 1888.

Establishment.

DR. LYNCH was the Health Officer of the Port of Calcutta from the commencement of the year up to the 3rd July, when he retired from the service, and was succeeded by Dr. Vincent Richards, who has submitted the present report. In 1885, the Health Officer requested that he might be supplied with a "bolio" in place of the "dinghy" which he had theretofore used, and one was given to him. It was then reported that the new boat was unsuitable, and the Port Officer's "bolio" being available, it was made over in August 1888 to the Health Officer, who thought it would suit him. Dr. Richards now states that this boat also is unsuitable for his use, and asks that a boat similar to those used by the Custom House Officers may be supplied to him. The Port Officer of Calcutta will be requested to obtain and submit an estimate of the cost of a boat such as Dr. Richards considers to be necessary for his use.

Inspections.

2. The report shows that 1,464 vessels were inspected during the year against 1,601 in 1887. The decrease is due to the less frequent inspection of coasting steamers which arrive at the port many times in the course of the year, and which it is not considered necessary to inspect at each return visit, as they have to be visited for the purpose of furnishing bills of health on their departure, which generally takes place within a few days of their arrival.

Dr. Richards brings to notice the insufficiency of accommodation provided for crews in many of the iron built vessels visiting this port, and states that little attention is paid to the ventilation necessary for their health. The Government of India will be requested to ask the Secretary of State to move the Board of Trade to communicate with ship-owners on this subject.

Sickness and mortality among European seamen.

3. The daily average number of European seamen in the port was 1,510 against 1,893 in 1887. The health of the seamen was not so good as in the previous year. Including deaths out of hospital, the death-rates per mille of the last five years were as follows:—

	Cholera.	Other diseases.	Total.
1884	21·96	41·57	63·53
1885	4·72	25·99	30·71
1886	11·61	33 53	45 14
1887	10·03	16·91	26 94
1888	10·59	27·15	37·74

The total number of casualties from all causes amounted to 57 against 51 in the previous year. It has, however, to be observed that there were eight deaths from sunstroke against four in the previous year, the larger number being due to the exceptional weather of last June. It is satisfactory to notice that the death-rate from cholera during the year compares favourably with the quinquennial mean.

The Health Officer complains that timely notice is not given to him of the occurrence of cholera on board ships, and that as a consequence the opportunity for making satisfactory enquiry is lost. The Sanitary Commissioner will asked to report what rule the Health Officer would propose to meet the necessities of the case.

There were six deaths of Europeans from drowning, three of which occurred at the jetties. Dr. Richards suggests that there should be a hand-rail on each side of the landing stage. The Port Commissioners will be asked to consider and report on his suggestion.

Deaths at sea.

At sea there were 35 deaths among the European seamen against 47 during the previous year.

4. The number of European seamen admitted into hospital on account of venereal disease was less than that of the previous year, though there was a slightly higher admission-rate per mille of population. The following table shows the admissions into hospital since 1883:—

Venereal disease.

	Total admissions.	Rate per thousand.
1883	237	127·4
1884	184	109·2
1885	170	100·4
1886	417	179·2
1887	228	120·4
1888	183	121·1

5. Scurvy appears to be steadily decreasing. The number of persons admitted into hospital suffering from this disease amounted to 13, 17, 4 and 3, respectively, during the last four years. The three cases that occurred during the year were not due to the supply of any inferior kind of food or antiscorbutics to the seamen.

6. The Sanitary Commissioner, in submitting the report of the Health Officer for the year 1887, stated that the number of the native population on the river, according to the census of 1881, viz. 25,000, was below the actual number constantly found, and represented that a correct day census of the native river population was necessary for the purpose of arriving at the correct rate of mortality among them. The subject has during the past year received the Lieutenant-Governor's consideration; but having in view the difficulty and expense that would be incurred in taking the proposed census, His Honour has decided not to take any action at present in this direction.

Sickness and mortality among the native floating population.

The following table shows the mortality recorded from all causes among the native river population, the averages being calculated on a population of 25,000:—

	Total deaths. 1888.	Total deaths. 1887.	Ratio per mille.— 1888.	Ratio per mille.— 1887.
Cholera	95	49	3·7	1·91
Bowel-complaints	7	6	·27	·23
Fever, malarious	22	... ...	·85	·85
Ditto, simple	... ...	22		
Other diseases	24	21	·96	·81
Total ..	148	98	5·78	3·82

The above figures show that the health of the native river population, like that of the European population, was not so good in 1888 as it was in the previous year. The figures are, however, in neither case very reliable.

7. The total death-rate among the lascar crews on the river was 1·6 per 1,000 against 4·04 per 1,000 in 1887. No complaints were made by lascar crews during the year.

Lascar crews.

8. Two ships arrived during the year with pilgrims on board, in one of which there were three cases of small-pox. In his report on the health of the port for the year 1887, the Health Officer stated that considerable difficulty was experienced in enforcing the provisions of the Compulsory Vaccination Act on vessels arriving with cases of small-pox on board, and suggested that a landing stage and depôt in a suitable place with shelter-sheds might be erected where pilgrims could be detained for the purpose of being vaccinated. To act on the Health Officer's proposal would necessitate an amendment of the law, and the matter is still under the consideration of the Lieutenant-Governor.

Pilgrims.

The Sanitary Commissioner will be requested to make a separate report on the proposal to compel unprotected pilgrims to be vaccinated before they are permitted to proceed on a pilgrimage by sea.

9. There has been a general improvement in the conservancy of the foreshore of the river. But the sewer on the Howrah side, which drains a large portion of

Conservancy. Sanitary defects.

Howrah into the river, continues to cause a serious nuisance. The drain forms a part of the general drainage of the town of Howrah, and was included in a scheme which was sanctioned in 1881. In the interests of the shipping, as well as in the general interests of sanitation, it is desirable that the town of Howrah should have a proper system of drainage and water-supply. The attention of the Municipal Commissioners of Howrah has been drawn to the defective system of drainage in the town, and they have expressed their intention of preparing a comprehensive scheme for the draining of the town away from the river. The Commissioners have been urged to lose no time in carrying out this project.

Dr. Richards complains of the public nuisance caused at the jetties by persons in the employ of the Port Commissioners resorting to the foreshore beneath the jetties for the purposes of nature. He says that the latrine accommodation provided by the Commissioners is not sufficient for the large number of labourers and workmen employed at the jetties. The Sanitary Commissioner, in his letter No. 1267, dated the 15th February 1889, reported that in his opinion the latrine accommodation within the jetty enclosures was quite sufficient. He will be requested to make a further report on the subject.

Dr. Richards states that the complaints made in the previous year's report in regard to the latrines of the British India Steam Navigation Company in their workshops at Howrah have not received the attention they deserved on the part of the Company. The Agents of the Company were addressed by Government on the subject, but they did not admit that any nuisance was caused by their drains. The Sanitary Commissioner has been asked for further particulars on the subject.

The Health Officer draws attention to the outflow of liquid sewage from Fort William into the river, which has long been a source of nuisance to the shipping, and the public using the Strand Road. Representations on this subject were made last year to the Government of India, in the Military Department, and at the request of that Government a scheme is now under preparation for the discharge of the Fort sewage into the Calcutta sewers. The Lieutenant-Governor hopes that the Government of India will find it possible to carry out the scheme during the present year.

Dr. Richards also alludes to the unsatisfactory state of Kassi Mitter's burning ghât, and suggests that steps should be taken to screen it from the public gaze, and to divert the drainage of the locality away from the river into which it flows at present. The Corporation of Calcutta will be addressed on the subject, and steps will be taken to remedy the evil complained of.

Corpses and carcasses floating in the river.

10. The Lieutenant-Governor is glad to notice that during the year under review there was a marked decrease in the number of corpses and carcasses found floating in the river.

Water-supply.

11. No complaint regarding the supply of water was received from the shipping during the year, but Dr. Richards is of opinion that the construction of the water-boats is objectionable, and that even the new one supplied by the Calcutta Corporation is faulty in this respect. He thinks that the boats of the British India Steam Navigation Company for the supply of water to their fleet are excellent, and that it would be a great benefit to the shipping in the river if the Municipal Commissioners provided similar ones. The Corporation of Calcutta will be addressed on this subject.

Conclusion.

12. The Lieutenant-Governor endorses the commendation bestowed upon Dr. Richards by the Sanitary Commissioner for the energy and efficiency displayed by him in the performance of his duties. His Honour also notices with pleasure that the Native Sanitary Inspector, Babu Nanda Lal Haldar, has performed his duties satisfactorily.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

CALCUTTA MUNICIPAL ELECTIONS, 1889.

No. M 1/1—A34, dated Calcutta, the 14th May 1889.

From—C. Cuthbertson, Esq., Offg. Secretary to the Government of Bengal, Municipal Department,

To—The Chairman of the Corporation of the Town of Calcutta.

I am directed to acknowledge the receipt of your letter No. 1004, dated the 15th April 1889, reporting on the Municipal elections held in Calcutta and the amalgamated portions of the Suburbs on the 15th March.

2. In reply, I am directed to convey to you the thanks of the Lieutenant-Governor for your interesting report, and to say that His Honour accepts your view that, considering the novelty of the arrangements, and the exceedingly defective state of the old register of owners which the new system is specially designed to remedy (but which formed unavoidably the basis of the first election), the proceedings were carried out with as much success as could be expected, and the actual arrangements at the polling booths worked with exceptionally little friction or difficulty.

3. The Lieutenant-Governor approves the proposals contained in paragraphs 14 and 29 of your report, that the duty of correcting the occupiers' list should in future be undertaken by the Municipality, and that the name of the person representing a firm for voting purposes should be ascertained at the time of granting a license to it.

4. With reference to paragraph 33 of your report, I am to request that you will be so good as to submit, for the consideration of the Lieutenant-Governor, a draft of the rule which you would propose to substitute for rule 11 of the election rules.

No. 1004, dated Calcutta, the 15th April 1889.

From—The Hon'ble Sir Henry Harrison, c. s., Chairman of the Corporation of the Town of Calcutta,

To—The Secretary to the Government of Bengal.

I have the honour to submit the following report on the elections held in Calcutta and the amalgamated portions of the Suburbs on the 15th March 1889.

Changes made by new Act in system of voting.

2. As this is the first election under a new system, and as, moreover, it is the first occasion on which personal voting at the polls has been requisite, it seems desirable to explain briefly the changes made by the new law in order that their success may be fairly gauged. This is the more desirable because from the complaints which have been generally made as to the obsolete character of the lists prepared, it is evident that the objections to the old system are very little realised, while the remedies which the present law applies are mistaken for the disease which they so clearly reveal.

3. Under the law hitherto in force, the Chairman had only a passive part in the preparation of the list of electors. The section in point (18) is thus worded—"Any person qualified to vote at an election or to be elected as a Commissioner may, at any time not being less than six weeks or more than three months before the election takes place, apply, personally or by letter to the Chairman of the Corporation for registration of his name as such voter or person as aforesaid, &c."

And the one qualification for voting was to be a male person resident in Calcutta of full age who had paid Rs. 25 rates and taxes during the year preceding the election (Sections 7 and 8).

Objections to former system.

4. The result of these sections was to place the election entirely in the hands of the electioneering agents. Scarcely a single person came forward of himself to ask to be entered on the list, while the electioneering agents went round and collected the names of all those who would vote for them and (till the practice was changed by me at the 3rd election) got the voting papers made over to them in return. These they kept in their hands, had them filled up at their leisure by the voters, and returned them to the polling officer at the day of election. The abuse was apparent on the face of these proceedings and constituted a very grave defect in the old law, but besides this there was the insuperable difficulty that the Chairman had no means of knowing who had and who had not paid Rs. 25 rates and taxes, so that for all practical purposes, it was necessary to

take assertion for proof. The bulk of the payments are rates, and the rate bills both for owners and occupiers are made out according to the assessment register. Had the assessment register been accurate, the claim might have been tested by reference to it; but it was notoriously so obsolete owing to the failure of owners or occupiers to register, that the Office could not report who had paid, but only that the rates had been paid. Hence a system grew up, which I several times referred to in Council, of applying for votes according to the amount paid. If a house paid Rs. 80 in rates, it would cover 3 votes; if Rs. 240, 9; if Rs. 500, 20 votes. Accordingly, the electioneering agents often arranged the families according to the rates. It was a family of 3, 9, or 12 persons, according to the number which the rates would cover, and there were no means of testing the statements made. The register only bore the name of (say) the grandfather dead long ago, and in his name all the rate bills were made out. In one case, which attracted my attention specially, 29 persons claimed to vote as joint-owners and occupiers of one house.

The same difficulty occurred in respect of firms taking out licenses. Such firms exist in hundreds, in Burra Bazar, two names being joined together, which often are quite different from the real persons managing the business. It was argued that if two partners paid Rs. 50, each paid Rs. 25; but, by the same argument, if two paid Rs. 25, or three paid Rs. 50, none could vote. Therefore, if the sum paid was Rs. 25, one person claimed under it; if Rs. 50, two persons; if Rs. 100, three or four, and there were no possible means of checking the correctness of the allegations made

Remedies.

5. To remedy these evils which reduced the voting qualification almost to a farce, the new Act provided that lists of owners, occupiers, and license-holders should be prepared according to the Office registers. By this provision not only would the necessity of applying on the part of the rate-payer be dispensed with, but also the inaccurate character of the assessment book would be brought prominently to notice, owners who wished to vote would be compelled to register, and the evil be remedied. The irregular practice of splitting up qualifications was replaced by a regulated system of plural voting As regards the qualifications for voting, it was not at first intended to go further than owners, occupiers, license-holders, and payers of carriage and horse tax, but as it was represented that a great many persons who had hitherto voted would be thereby disenfranchised, a saving clause was introduced allowing persons who paid Rs. 24 rates and taxes in the aggregate to vote as heretofore, provided—(1) that they applied to be entered on the list, and (2) that they paid in their own name and on their own sole account.

6. The annual valuation fixed by the law as giving a vote to an owner or occupier was Rs. 300. This would ordinarily entail a payment of at least Rs. 24 a year in rates alone, but it was pointed out that if a person was both owner and occupier of a smaller house, he would still usually pay that amount. Another qualification was therefore added to the Bill in Committee, that those who both owned and occupied houses valued at Rs. 150 and upwards should also be entitled to a vote, but they also, as in the previous Act, must apply for it. One further provision of the new law ought to be noticed. It might be possible for the polling officer on the day of election to judge who was the right person to represent the Great Eastern Hotel or any other large and well known European place of business, but it was quite impossible to impose upon him this duty with regard to the hundreds of petty firms of Burra Bazar. It was therefore necessary to ascertain in some way beforehand and enter in the list the names of the authorised representatives of each firm. Section 24 therefore provided that a letter should be sent not less than 30 days before the Election to every Hindoo joint family, company, firm, and other association of persons entitled to vote, requesting them to fill in a form to accompany such letter, with the name of the person authorised to vote on their behalf.

Detail of qualifications under new Act.

7. The qualifications under the new Act may therefore be thus summarised:—

(a) Major qualifications—

(1) Owner of a house valued at Rs. 300 a year and upwards.
(2) Occupier of ditto ditto.
(3) Holder of a license of Rs. 25 a year or upwards.

List of persons thus qualified were to be prepared by the Chairman from his Office registers, and votes could be added together up to a maximum of

12; names omitted or wrongly entered might form the subject of claim or objection.

(*b*) Minor or saving qualifications—

(1) Owing *and* also occupying house of Rs. 150—299.

(2) Paying at least Rs. 24 as rates and taxes in the aggregate.

As these were only inserted in the law in order not to disenfranchise existing voters, the provision requiring them to apply to have their names added to the list was retained, and the votes could not be added to votes under other qualifications.

8. One word more before describing the proceedings. The Bill was drafted and passed through Committee on the assumption that for the first year the old Commissioners would continue in office, and the elections take place after the new machinery had been working for at least 9 months. This was altered in Council, not indeed against my advice, but with a clear and definite warning by me that we should have to conduct the election without having that control over all the registers and statistics which a certain period of working would give us. It is but fair and reasonable to bear this in mind.

Ownership.

9. I now proceed to a description of the manner in which the new machinery worked. The most important qualification perhaps is that of ownership, and as it is the obsolete character of the lift of owners and occupiers, which is one of the special indictments brought by the public against these elections, I think it will be easy to show that here the fault has been found with the remedy rather than as it should have been with the disease. The existing law (section 108) provides for the maintenance of an assessment book which shall contain *inter alia* the name of the owner and the name of the occupier of each property. It is of the essence of good Municipal administration that a book of this kind should be accurate, at least as far as owners are concerned. It is vitally important to the Corporation to know who are the persons to whom they have to look for the proper and rational management of the property under their administration. At the same time it was notorious that so far from being accurate, the present register was grossly inaccurate. Many owners, not always perhaps unintentionally, had taken no steps whatsoever to get their names registered, and therefore one of the special objects of the present law has been to make the inducements to registration such that in future owners would as a rule register. In many respects they are penalised in small ways for non-registration, and one of the penalties which is designedly attached to failure to register, is the loss of a vote at the elections; this is conferred (*vide* section 21) not on all owners as such, but on all owners who have registered themseles as such. It is therefore most unreasonable to urge as a defect in the present Act the very defect in the pre-existing state of things, which the new Act is designed to remedy. The extent to which dead persons and persons who have left Calcutta have appeared in the electoral lists, furnishes conclusive evidence of the extreme inaccuracy of the register of owners, and of the urgent need of rectifying it. It shows also how impossible it has been hitherto to check claims to votes on account of rates paid.

10. Whether or not it is fair to owners to penalise them for non-registration by the loss of the owner's vote is another matter. To my mind it most certainly is; one of the avowed objects of the present law has been to bring into greater prominence the duties of owners as contrasted with their rights, and those who will not discharge one of the most obvious duties of ownership have no right to complain if they thereby lose its privileges.

11. So far as was consistent with the maintenance of this principle, every possible precaution was taken to warn owners of the necessity of registering their names and amending the register. In the October to December quarter a printed notice *vide* annexure A) was circulated with the rate bills to all the owners in Calcutta warning them of this necessity, with a form attached for them to fill up and return. Moreover, the ordinary precautions against a hasty mutation of names were temporarily suspended on purpose to facilitate registration. An order was given by me directing the Assessor on application to register at once temporarily, informing the applicant that for voting purposes his name was entered in the assessment book, but that he must, within a specified period after the election, produce the usual evidence, otherwise it would be removed again.

12. About 5,000 of these forms were circulated by the collecting sircars, and 1,500 covering 3,200 houses were filled in and returned. That the regis-

ters, even after these corrections had been made, were almost ludicrously inaccurate, shows what a large number of owners who ought to have registered long ago, or at least ought to have filled up and returned the forms, would not take the trouble to do so. I must submit that people who will not even take the trouble to fill up a form left at their door, in order to remedy a defect of their own making, have no right afterwards to complain of the omission of their name from the list of voters, or of the insertion of an obsolete name instead of it. In a case of this kind it is neither fair nor just to overlook the enormous good which this salutary provision of the Act has effected as compared with the mere superficial harm that has resulted. How have the elections been in any way injured or invalidated by the inclusion in the list of a number of persons who are long since dead? The real evil was not the publication of those names, but the fact that they were the only owners of whom the Corporation knew anything, and I have very little doubt that the improvement in this respect which will result from the election will be very great. Henceforth the assessment book will be a reality.

Occupancy.

13. The case of occupiers is recognised by the Act as different. It can hardly be expected of a temporary occupant that he should register his name in the books of the Municipality, and therefore the law (section 21) allows an occupier's name to be inserted in the roll of voters if he can satisfy the Chairman that he has paid the rates as occupier for the quarter immediately preceding the elections. This provision was utilised in a very liberal way. The occupiers' list, as taken from the registers, was almost as imperfect as that of the owners, but evidence was freely admitted to have a new name entered on the roll of voters.

14. The result was that every occupier whose name was registered as such has been given his votes, as well as every occupier who took the trouble to apply in time for entry of his name, but the large number who were neither registered nor cared to apply were omitted. It has been said, however, that it is too much to expect a person to apply, and that in England he is registered without applying. This is very likely correct, but it should be recollected that, under the law hitherto in force in Calcutta, application was obligatory; it is hardly fair, therefore, to blame the new law for not introducing every improvement at once. I am now inclined to think that we ought to correct the occupiers' register ourselves. No question of proprietary right being involved, there will be no serious objection to names of occupiers being changed on insufficient or even incorrect grounds, and I have accordingly taken steps to have the names of occupiers continuously ascertained in future by our collecting establishments, and reported to the Assessor for entry in his assessment book.

License.

15. The third qualification which according to the new law entitles to a vote without any application is paying a trade or profession license. The list of these voters was easily prepared, though there was some difficulty in identifying them with the owners and occupiers of the same name and amalgamating their votes. A very large number of lawyers, however, took out their licenses from the High Court and Small Cause Court, giving no other residence. Their names therefore at first appeared as voters in ward No. 12, but as a section of the law had been expressly drafted to prevent their swamping the electors of that ward, they had to be struck out, but were warned by advertisement that if they wished to vote in the wards in which they resided or paid rates, their names would be entered in the rolls for those wards on receipt of an intimation from them stating their place of residence.

16. Many of them availed themselves of this notice, and on the whole the part of the list which contained the names of licensees, was, I think, the most accurate. The total number of persons shown in the first list as qualified to vote under the three heads of owners, occupiers and licensees, was 14,090, the details of which, ward by ward, will be seen in annexure B

Saving qualifications.

17. It was the express intention of the Act that the remaining qualifications, viz., owning and occupying a house of between Rs. 150 and Rs. 300, paying Rs. 24 carriage and horse tax, or paying Rs. 24 rates and taxes in all, should only apply to those who claimed under them. None of these names, therefore, appeared in the first list, but the provisions of section 21, authorizing them to apply, were duly pointed out in publishing the list. When the 15 days' time allowed by law had expired, it was found that in all 4,295 applications had been received, of which

1,141 were under these special qualifications, and 3,154 referred to errors and omissions in the list. Annexure B will show the details of these ward by ward.

18. The next important stage was the conversion of the names of joint families, companies, firms, and associations into those of the individuals who were to represent them at the polls, already referred to in paragraph 6. Section 24 provides that a form shall be sent to the address of all such companies, &c., for them to fill up and return with the name of their selected representative. These were duly sent out to the number of 2,716, but of these only 1,362 were returned. Hence a difficulty arose as to what was to be done with the remainder. It was impossible to leave it to the discretion of the polling officer to determine whether the person claiming to vote was or was not the authorised representative of a company or firm. It was therefore considered best to omit from the revised list all joint families, companies, firms, and other associations of persons who had not returned the form sent to them. It was hoped that if any of them did value the privilege of voting, they would apply for the restoration of their names after the appearance of the revised list, and if they did not do so, it might be assumed that they did not value a vote, and that there was no harm in excising their names. As regards the case under this section in the High Court, I refer to it further on.

Pluralities.

19. The revised list appeared in due course and contained 11,664 names. It was received with almost as little interest as the first list, except on the part of the intending candidates and their agents. Under the rules made by Government (*vide* annexure C), objections might be taken to this list on the score of the person named in it being dead, a woman, or a minor, or of the name being a duplicate of another name, or of the representative of a firm or company being wrongly authorised. In all 1,711 objections were taken between the 1st and 14th of March, which have been since disposed of. By these preliminary measures, all the irregularities and the anomalies which have characterised previous elections were eliminated on this occasion, and the polling officers found themselves in possession of a clear list of single names, in dealing with which their task was the comparatively easy one of guarding against wrongful personation. The polling therefore passed off with the most complete regularity so far as the official machinery was concerned. I visited all the polling stations in the town except one during the progress of the poll, and nowhere was there any difficulty or embarrassment to be adjusted or put straight. This does not refer to the artifices of the candidates and their agents, which are, of course, not under our control. A few complaints were received of voters being persuaded to change their mind and vote for a different candidate from the one they had promised, and in some cases the polling officers were blamed for not preventing their doing so, but this supposes a duty imposed on these officers which they cannot reasonably be called upon to undertake. All that they can see is that the voter fairly understands who he is voting for, and knows what he is doing; they cannot regulate or control the influences brought to bear upon him either as he comes to the poll or even at the polling table. With these reservations the polling arrangements were everywhere satisfactory, and the proceedings conducted in an orderly and regular manner. In one ward personation was practical to such an extent as to change the apparent result of the election, when the votes were declared invalid; but this was in no way the fault of the polling officer. The candidate against whose interests the personation took place, admitted that the polling officers had neglected to precautions. With this exception the objections taken to votes were very few; these to the number of 87 have since been disposed of. At the same time it is possible to detect one or two openings for fraud which should be guarded against at future elections. These I have referred to further on.

Revised list.

20. As regards going to the polls, all that can be said is that the reluctance to do so was somewhat less than the most extreme opponents of the measure prognosticated; out of a total of 11,664 voters on the revised list, only 3,369 actually voted, but in 6 out of the 25 wards, containing 3,688 voters, there was absolutely no poll, while in several other wards the poll closed early owing to the retirement of the losing candidates; of the remainder a certain percentage must be allowed for persons who are dead or have left Calcutta; still after making every allow-

Personal voting.

ance under these heads, it is evident that a very large number of persons entitled to vote have abstained from doing so.

Plural votes.

21. As regards the system of plural voting, all that I can say is that absolutely no complaints have reached me, and no difficulty has been experienced in working it. I have no doubt that numerous as the abstentions were, they would have been still more numerous, had not the wealthy voters been given more influence than the poorer. In comparing this election with those that have preceded it, it is but fair—(1) to compare it with the first rather than the later elections under the old Act, and (2) to bear in mind that one of the special objects of the new provisions was to place the elections somewhat less exclusively under the control of the wire-pullers and electioneering agents. Apathy on the part of the voting public has been the characteristic feature of all Calcutta, as well as of most other Municipal elections. That such apathy has marred the working of the new machinery to some extent is no argument whatsoever against that machinery unless it can be shown that it did so more rather less than before. This has most certainly not been the case. Under the former law (section 18) any person wishing to vote was required to send an application to have his name entered on the list of voters. The consequence was that the voting lists were almost exclusively made up by the agents of the rival candidates; there was hardly any voting public at all outside those on behalf of whom agents applied. As conclusive evidence of this, it was found at the first election in 1876 that out of 2,228 Europeans and Eurasians who were believed to be qualified to vote only 199 applied, and were included in the voting list. In the present list this number was 2,341, so that whatever the omissions of the present list, they will bear no comparison with those of the first list prepared under the old system.

Simplicity of the English system.

22. It must also be borne in mind that the difficulties of preparing a voting list in Calcutta are far greater that the similar difficulties in English towns. In England only occupiers have votes, and to prepare a correct list of the actual occupiers of each house is a comparatively easy task. In Calcutta, on the other hand, not only are owners entitled to vote but also licensees, and other persons who pay Rs. 24 annual taxation under all heads. To prepare a list of owners from any other source except an official register, would be a very dangerous proceeding. Again, the custom of using the names of firms instead of individuals in the business parts of Calcutta, is so deeply engrained in the habits of the people, that it is hardly an exaggeration to say that in the great majority of cases, the real persons who carry on the business are not the ostensible ones. Under such circumstances, polling must have led to inextricable confusion, unless rigorous measures had been taken to fix the vote on a single responsible individual in the finally revised list. It is perhaps to be expected that persons who would not stir a finger to secure a vote, while it was open to them to do so, should afterwards complain if solicited for that vote by the candidates, when it was too late to obtain it, but though one of the newspapers states that the complaints which have reached it have been very numerous indeed, I can only say that those which reached me have been comparatively few, and almost in every instance they have been those of persons whose claims have been barred by their own failure to move at the proper time.

Result of the elections—Small number of Europeans.

23. As regards the result of the elections, disappointment has been expressed in some quarters at the number of Europeans returned being less rather than more than before, and it is assumed without any foundation that the new Act was expected to work in the opposite direction. When new legistation was on the tapis, it was proposed both in the Amalgamation Committee and in Council, as well as by the Hindoo Associations and organs to increase the proportion of elected Commissioners to ⅔ or ¾ This I strenuously opposed, more specially in a note, dated 26th November 1885, appended to the Amalgamation Committee's report, in which I showed that the new suburban wards would tend to increase the Hindoo majority, and strongly protested against any increase in the proportion elected by the wards. But I asserted in the clearest possible terms that this would still leave the Hindoo predominence as it was The argument which I used throughout was this that as many native gentlemen had abundant leisure which they were only too glad to devote to municipal work, while most qualified Europeans had no leisure

and grudged the time which they regarded as wasted over municipal discussions, it was inevitable that the leisured Commissioners must have a large majority, at least on Committees as compared with the busy Commissioners, and that it was best to recognise this and make them feel a sense of responsibility. But a majority would often work very well if it had a substantial minority to face, but badly if that minority was too weak. Therefore care ought to be taken to maintain a substantial European minority.

24. This would be endangered partly by the loss of the third member in the European wards, partly by the addition of the suburban wards which were electing almost a solid phalanx of Hindoos, and the checks introduced into the new Act, besides retaining one-third of the Commissioners for nomination or election by special constituencies, were (1) to have the list of voters drawn up in the office according to qualifications instead of only on applications, and (2) to allow plural votes by which wealthy European voters would get the same weight which wealthy Hindoo voters already got by the indirect method of partnerships and joint families. Have these checks failed? A reference to Annexure D will show that they most certainly have not. The following is a statement of the voters in the town arranged according to nationalities at the four elections under the old Act and at the recent elections:—

Years.	Hindoos.	Mahomedans.	Europeans.	Chinese.	Jews.	Parsees.	Total.
1876	4,556	239	187	3	3	6	4,994
1879	6,025	604	352	2	16	5	7,004
1882 (10,587)	7,314	797	1,017	5	33	14	9,180
1885 (9,548)	7,051	1,005	855	12	35	17	8,975
1889	7,964	1,286	2,340	9	36	29	11,664

It will be seen that while the new system gives the Hindoo voters, includ ing the suburban wards, an increase of only 8 per cent. on the largest number previously obtained, and the Mahomedans an increase of 28 per cent., it gives the Europeans, &c., an increase of 230 per cent.

25. This is as regards the number of voters, but if the voting power due to the plural system is also taken into consideration, the same tabular statement will show that the Europeans who had never before exceeded 11 per cent. of the voters in the town, and who on this occasion were just over 20 per cent, had the power of exercising 11,034 votes out of 46,402 or 24 per cent. Again, if the voters in each ward are examined, it will be seen that the Europeans had voting strength sufficient to return—

1	Commissioner for ward	10
1	ditto	12
1	ditto	13
1	ditto	14
1	ditto	15
2	ditto	16
2	ditto	17
2	ditto	18
1	ditto	19
1	ditto	20
1	ditto	21
1	ditto	24
1	ditto	25

16 Commissioners in all, whereas as a fact they only returned 9.

These figures, I think, show conclusively that had the Europeans organised, the new Act would have fully done all that was expected of it. The fact that several of the European voters were dead in no way affects the result, because at least as large a proportion of native voters were dead, and the dead voter almost in every instance represents a living voter, who could have obtained a vote had he cared to apply for it. It is only where native owners

or occupiers of houses have been succeeded by European owners or occupiers, or the reverse, and that the obsolete character of the list makes any difference, and this would not practically affect the result.

26. Nothing is further from my intention than to find fault with the European community for its inertia. It is obvious that it does not want the elective system. It would much rather have the number of members which are to be regarded as its share of the Corporation fixed by law, as was at first, proposed, and then have those members nominated by Government and the leading European Associations. It cannot be expected that busy men will trouble themselves with looking after their votes at a municipal election, but I do think that as the electoral system has been introduced, and is part of the law of Calcutta, the leading Associations might have combined together to see that the Act was worked properly, that votes were claimed, circulars under section 24 answered, candidates brought forward suitable to the wards for which they stood, and the other measures taken without which no elective machinery can be expected to work In 1865 when it was at first proposed to fix by law the numbers of each community, the proposal was to constitute the Corporation of—

33 Hindoos.
12 Mahomedans.
27 Europeans and others.
72

Had the European votes been made the most, there would on the present occasion have been 16 elected for wards,
10 elected for special constituencies,
6 nominated.
29 out of 75, or rather more than was originally looked upon as the ideal proportion.

27. Annexure E shows the number of persons voting in each ward nationality by nationality; it is only of interest if analysed minutely as owing to there not having been an election in every ward any inference drawn from the totals is fallacious. In general, however, it shows that where an election was held, the Mahomedans were the most ready to go to the poll and the Europeans the most backward.

Other details.

28. Annexure F shews the details of the plural votes; out of 11,664 voters

695	had the maximum of	12 votes
70	ditto	11 „
211	ditto	10 „
155	ditto	9 „
323	ditto	8 „
184	ditto	7 „
724	ditto	6 „
419	ditto	5 „
1,878	ditto	4 „
2,034	ditto	3 „
4,971	the minimum of	2 „

As already said, the plural system worked very well and complicated, as it may have appeared, and, as it was pronounced to be by many critics, no hitch occurred anywhere.

29. Section 24, the section under which all pluralities of persons who have a vote can appoint a representative to vote for them, would, as already said, have worked very well, if all such pluralities had filled up the form sent to them and returned it. Annexure B will show ward by ward the number that did so, the total being 2,716 forms sent and 1,362 or as nearly as possible 50 per cent. returned. Of these 2,716, more than two-thirds were in the four riparian wards, *viz*:—

263 in ward No. 2
325 do. 5
928 do. 7 (Burra Bazar).
327 do. 12 (Dalhousie Square).
1,843

But while out of 1,516 in wards 2, 5 and 7, 991, or 65 per cent. replied, in the European ward No. 12 only 80, out of 327 or less than 25 replied. The Act does not say what is to be done in the case of those who do not reply, and therefore their names were altogether omitted. I propose to meet this in future by ascertaining, at the time of giving a license to each firm, the name of their representative for voting purposes, and entering this name in the list in lieu of such firms as leave the form unfilled up.

Case in High Court.

30. It was in connection with this section that a case was brought before the High Court to set the result of the voting in one ward as declared by me. The rule at first granted was discharged, and the result announced by me sustained, but the Court apparently considered the section defective, because it did not restrict the choice of representatives, allowing a firm therefore to appoint any one disconnected with them, even the agent for a candidate, as their representative. The Judge also did me an injustice if he is correctly reported to have said that I ought to have held my hand and not sent in the list of valid votes until the rule had been heard, as was, if I recollect right, stated in my affidavit. I sent in the list to the *Calcutta Gazette* and posted it up in the office before I heard that a rule was applied for, still less granted.

31. As regard the defect in the law, I submit that, so far from it being a serious blot, it is a defect of the most insignificant kind. Hitherto all voters have been allowed to vote by voting paper, and if the section is abused to the utmost possible extent, it cannot in substance amount to anything more than this that all Hindoo joint families, companies, firms, and other associations will practically be exempted from personal voting. Although had this been distinctly contemplated, it would have caused heart-burning and jealousies. I am by no means certain that it would not be a practical advantage.

General smoothness with which the machinery worked.

32. So far as my testimony goes, which, if the most impartial, is certainly by far the best informed in this matter ; the new system worked with unlooked-for success, considering that it was new and untried. The first list was produced in due course containing over 14,000 names, and if obsolete it was only as obsolete as were the registers it was intended to reproduce; 4,295 objections were received and disposed of by myself, aided to some extent by the Vice-Chairman, with much labour no doubt owing to their prodigious number, but with such success that not a single appeal was made to the Magistrate under section 23. The revised list was brought out in due course, in which, for the first time in any municipal election, every name given was that of a single identifiable individual. The new sections about proposing and seconding worked perfectly, and in the largest ward in the town as well as in 5 others, the expense and labour of taking a poll was saved. In the wards in which a poll did take place, all voters received postcards informing them of the polling station, the number of votes they might give, the names of the candidates and the method of voting. I visited nearly all the polling stations on the day of election, and found none of the confusion or disorder that might have been expected at a first experience. In one ward personation was carried on to some extent, but it cost the candidate, in whose interest it had been practised, his seat.

Government rules worked very well.

33. The rules laid down by Government worked very well as far as my experience goes, but rule No. 11, regarding excess votes, ought on the next occasion to be altered. On the present occasion very few excess votes were given, and the rule worked substantial justice ; but in future elections it would afford a means of withdrawing and cancelling votes which might be resorted to, to the annoyance of voters and candidates. The rule is that if a voter has, say, 5 votes and gives more to different candidates, as many votes are deducted from each candidate as will bring the votes within his voting power. This might and probably will be thus abused. A voter gives 5 votes as promised to the candidate he wishes to vote for. If his voting power is thereby exhausted, he can go without molestation, but if he can still give 4 or 5 votes to another candidate, and perhaps 3 to another, the agents will try and induce him by every possible means to do so, so as to cancel some of the votes

already given. The rule should be that the votes first given count in full. Many means could be arranged of determining which these are—

The extent to which voters try to obilge candidates and their agents is evident from this alone that a great many voters gave an equal number of votes *to every candidates*, in other words, paired against themselves !

34. .I have every reason to hope that by the next election the registers will be very far more correct than at present, chiefly owing to this election and to the loss of many votes which failure to register has entailed. The system will be understood, and it may be hoped that the Associations, Europeans, Hindoos and Mahomedans, will interest themselves in putting forward good candidates and looking after the registration. The objection to personal voting will be much diminished, and the plural system is certain, from the evidence afforded by the present election, to become more and more popular. To my judgment the elections which have just terminated afford the best possible augury of the success of the new system, and this, I think, would be the verdict of every one who has had any experience of contrasting their working with that of the system which they superseded.

ANNEXURE A.

Municipal Election.

All owners of property in Calcutta, wishing to exercise the right of voting at the Election to be held, under the new Act, in March next, are warned that only such Owners, as are registered in the Municipal Registers, will be admitted to vote (see sections 8 and 21). Such, as own property registered in the name of another, are, therefore, hereby warned that they should apply without loss of time for the registration of their names, otherwise their votes will be lost.

For convenience a form of application of registration is attached.

Municipal Office: H. L. Harrison,

The 4th September 1888. *Chairman of the Corporation.*

Form of application for persons desirous of registering their names as OWNERS or OCCUPIERS of premises.

To

The Chairman of the Corporation.

Sir,

I request you will be good enough to register my name as Owner (or Occupier) of house property in Calcutta noted below.

Yours faithfully,

Number and situation of the premises of which applicant is the Owner.	Whether applicant is also the Occupier of the premises. If not, state name of Occupier.	No. of the Ward in which the premises are situated.	Municipal assessment of the premises per annum.	Remarks.

ANNEXURE B.

1	2	3							4	5	6	7	8
No. of Ward.	No. of names entered in preliminary list.	CLAIMS AND OBJECTIONS MADE.							Total of column 3.	Number of forms issued under section 24.	Number of returns received under section 24.	Total number of names in the revised list.	REMARKS.
		To vote under clause		To correct errors and omissions in list. Under clauses			To omit as dead duplicate, &c.						
		(a)	(e)	(b)	(c)	(d)							
1	351	22	5	2	2	7	29		67	38	9	320	
2	791	61	23	32	26	1	92		255	263	160	668	
3	400	47	28	32	20	1	68		206	66	34	404	
4	363	86	20	61	35	25	84		281	68	34	388	
5	1,560	22	10	47	7	0	308		414	325	244	1,000	
6	633	65	27	33	16	2	88		231	74	27	589	
7	3,086	......	55	7	13	30	473		578	928	587	1,887	
8	1,119	26	13	38	2	1	181		261	123	56	851	
9	647	41	43	23	14	3	64		188	65	22	621	
10	995	9	6	18	1	......	116		150	128	32	728	
11	569	114	13	29	105	......	84		325	52	15	697	
12	1,051	......	1	1	11	......	278		241	327	80	339	
13	690	4	30	23	......	5	120		201	85	9	572	
14	624	25	17	33	21	......	99		194	28	4	558	
15	491	1	17	13	1	......	42		74	24	5	428	
16	267	......	1	......	......	......	43		44	27	5	173	
17	173	1	18	1	1	......	19		40	13	3	148	
18	82	......	5	10	17	......	50		82	......	......	52	
19	282	27	......	14	1	......	23		74	23	4	256	
20	130	2	28	1	......	......	7		38	9	4	143	
21	184	13	18	5	1	1	20		58	9	4	173	
22	275	136	1	14	1	1	47		200	23	10	372	
23	59	19	14	4	......	......	2		39	11	8	88	
24	84	4	......	......	......	......	10		14	4	2	71	
25	186	1	3	......	......	......	37		40	9	4	138	
Total ...	14,090	728	415	439	285	107	2,323		4,295	2,716	1,362	11,674	

ANNEXURE C.

NOTIFICATION.

The January 1889.—It is hereby notified for general information that, under the power vested in him by section 19 of Act II (B.C.) of 1888, the Lieutenant-Governor has been pleased to prescribe the following rules for the election of the Commissioners for the Town of Calcutta.

Rules under Section 19, *Act II* (*B.C.*) *of* 1888, *which it is proposed to submit to Government for adoption.*

1. The first election of Commissioners under Act II (B.C.) of 1888 shall take place on 15th March 1889.

2. The polling shall take place at such stations as the Chairman may determine as soon as the word for which contests will take place under section 31 are known. Notice of the places fixed upon shall be given by advertisement in the Municipal Office and in at least two daily newspapers not later than the 11th March.

3. The Commissioners of the Town of Calcutta shall appoint a polling officer to preside at each station, and as many assistant polling officers as they may think requisite, and may pay to each officer so appointed such reasonable remuneration for his services as they may think fit.

4. The Chairman shall supply to each polling officer a sufficient number of copies of so much of the list of voters revised in accordance with section 22, Act II (B.C) of 1888, as may relate to the wards for which such polling officer is appointed to take votes, and no vote shall be received by the polling officer or his assistants, unless the name of the voter is entered in such list. The Chairman shall also furnish the polling officer with the names of the candidates for each ward as announced in accordance with section 31 of the above Act, and no vote shall be received in favour of any person other than one of such candidates.

5. All votes must be given at the poll on forms to be provided by the Chairman at the polling stations. Separate forms easily distinguishable shall be provided for each candidate, and the voter, unless he declares himself unable to write, shall write in his own hand, in the presence of the polling officer or one of his assistants, his own name, the name of the candidate for whom he votes, and the number of votes given for him. If he declares himself unable to write, the names and number shall be written at the dictation of the voter by the polling officer or one of his assistants, and such polling officer or assistant shall in that case append his own signature to the form..

6. The Chairman shall circulate to the voters of all wards for which there will be a poll under section 31, a post-card containing in English the name of the voter, the number of votes he is entitled to give, the names of the candidates for his ward, the polling station, and such other directions as the Chairman may think fit; such post-card shall be posted not less than two nor more than seven days before the date of election.

7. The post-card shall also advice the addressee to bring it with him to the poll as a help to identification, and if so brought, it shall be attached to the voting paper.

8. If a voter gives some of his votes to one candidate and others to one or more other candidates, he shall fill up a separate voting paper for each candidate for whom he votes.

9. It shall be the duty of the polling officer or one of his assistants to satisfy himself—

(1) That the name of the voter is entered in the list;

(2) That the voting paper is filled up in the manner prescribed in rule 5;

(3) That the name of the candidate voted for corresponds with the form assigned for such candidate;

(4) That the post-card, if brought by the voter, is attached to his voting paper or one of his voting papers;

(5) That the voter has not given more votes than he is entitled to.

10. No objection shall be taken at the polling station to the name of any voter entered in the list or to the number of votes assigned to him, but if any objection is taken to the identity of any voter, it shall be recorded on the back of the voting paper by the polling officer or his assistant.

11. If any voter gives more votes than he is entitled to, and the mistake escapes detection till after the voter has left the poll, a sufficient equal number of votes shall be deducted from each candidate voted for to bring the number of votes within the number allotted to the voter.

Illustration.—A, being entitled to 6 votes, gives 8 votes to X; 2 shall be deducted.

B, being entitled to 4 votes, gives 5 to X and 3 to Y; 3 votes shall be allowed to X and 1 to Y.

C, being entitled to 7 votes, gives 4 to X, 4 to Y, and 3 to Z; 2 shall be allowed to X, 2 to Y, and 1 to Z, and 2 votes be lost.

12. The polling shall commence at 9 A.M. and close at 6 P.M., and if it cannot be finished for any ward by that hour, it shall be continued on the following day at 9 till finished.

13. The polling officer shall be entrusted with the maintenance of order at the polling station, and all voters shall, while at or near the polling station, comply with all reasonable orders issued by him for the preservation of order.

14. At the close of the poll for each ward, the polling officer shall forward to the Chairman the voting papers which have been received by him duly sealed and secured, sending the voting papers to which objections have been taken separately from those to which no objections have been taken.

15. All claims or objections preferred under section 21 shall be decided by the Chairman ward by ward, and he shall give such notice in the Municipal Office of the date of hearing for each ward as may be practicable. Such hearing shall be conducted with open doors in order that any intending candidates or their agents may be present, and the Chairman shall hear any person present who asks to be heard before disposing of such claim or objection.

16. After the publication of the revised list under section 22, further objections to the list may be taken on the following grounds:—

(*a*) That the voter is dead or is a woman or has not attained the age of 21 years;

(*b*) That the voter is the same as another person whose name is on the list, and ought to appear only once on the list;

(*c*) That the voter, though purporting to be authorised to vote under section 24 on behalf of a Hindu joint family, company, firm, or other association of persons, is not duly authorised;

(*d*) Such objection must be in writing and must be delivered to the Chairman on or before the 14th March.

17. Such objections, as well as all objections under rules 10 or 11, shall be heard by the Chairman after the date of election, and the provisions of rule 15 shall apply to the hearing of the objections.

18. The Chairman shall, as soon as practicable, after disposing of objections under the last preceding rule, published at the Principal Office and in the *Calcutta Gazette*—

(*a*) The names of all candidates elected for wards for which there was no polling as provided in section 24;

(*b*) The names of all candidates for wards for which there has been polling, together with the number of valid votes given for each candidate, and the two candidates who have obtained the majority of valid votes shall be deemed to be duly elected Commissioners.

19. Except as otherwise provided in section 23, the Chairman's decision in all matters connected with the preparation of the list of voters and the validity of votes shall be final for the purposes of the election.

20. The following penalties are imposed for breach of these rules:—

(*a*) For signing a name other than the writer's own name on a voting form under rule 5, or for giving a name other than the voter's own name to the polling officer or assistant polling officer, a fine not exceeding Rs. 200.

(*b*) For intercepting a post-card or intentionally hindering the delivery of a post-card addressed to a voter under rule 6, a fine not exceeding Rs. 100.

(*c*) For taking away a post-card from a voter after it has reached him without his consent, a fine not exceeding Rs. 100.

(*d*) For refusing to obey the reasonable orders or directions of a polling officer under rule 13, a fine not exceeding Rs. 50.

(*e*) For tampering with any voting paper after it has been duly filled up and before the result of the election is declared under rule 18, a fine not exceeding Rs 200.

N. B.—The word Chairman in these rules includes any other officer appointed under sections 27 or 28 of Act II (B.C.) of 1888.

H. J. S. COTTON,

Secretary to the Govt. of Bengal.

ANNEXURE D.

Nationality of votes and voting power according to revised list.

No. of Ward.	Total number of voters.	Hindoos.		Europeans, &c.		Mahomedans.		Chinese.		Parsees.		Jews.		Total voting power.	Total votes given
		No of persons.	Voting power.	No. of persons.	Voting power.	No. of persons.	Voting power.	No of persons	Voting power.	No. of persons	Voting power.	No. of persons.	Voting power.		
1	320	314	1,187	3	24	3	6	...	...	...	...	...	...	1,917	*
2	668	653	2,685	5	49	10	25	...	...	...	...	...	...	2,759	1,391
3	404	388	1,344	1	4	15	41	...	...	...	...	...	...	1,389	852
4	388	372	1,343	5	81	11	29		...	...	...	...	...	1,403	909
5	1,000	979	4,250	7	56	14	63	...	...	...	...	...	...	4,369	*
6	589	568	2,068	6	54	15	49	...	...	...	...	...	...	2,171	975
7	1,887	1,453	6,091	215	1,152	181	655	2	6	23	84	13	83	8,031	*
8	851	495	1,809	122	419	228	732	5	15	...	...	1	2	2,977	1,419
9	621	462	1,582	53	184	105	291	...	...	...	...	1	2	2,059	760
10	728	425	1,244	256	852	45	197	1	...	...	...	1	12	2,298	634
11	697	504	1,582	175	605	16	40	...		1	4	1	2	2,251	923
12	339	108	1,006	224	1,119	3	28	1	6	1	4	2	24	2,187	879
13	572	190	628	236	1,005	147	515	...	...	3	21	1	12	2,181	875
14	558	160	619	225	740	172	505	...	...	...		1	8	1,878	323
15	428	86	390	244	1,000	94	333		...	...	...	4	19	1,841	326
16	173	26	214	142	1,224	2	20		...			3	16	1,473	*
17	148	34	273	96	760	14	45	...	...	1	2	4	13	1,098	318
18	52	11	34	39	140	2	4			...	...		...	187	*
19	256	149	504	80	387	26	83	...	...	...	...	1	5	979	*
20	143	36	164	38	160	69	156	...		...	...	...	...	480	300
21	173	60	195	58	332	54	158			...	...	2	10	695	550
22	372	327	1,074	22	153	23	63	...			...			1,290	937
23	88	59	211	18	119	11	38	...	...	...	...			398	211
24	71	24	69	34	104	11	29		...	...				201	132
25	138	80	320	41	233	16	53	...	...			1	12	618	338
Total	11,664	7,984	30,845	2,340	11,034	1,286	4,153	9	30	29	115	36	220	40,492	13,145

* No poll.

ANNEXURE E.

Nationality of voters and of persons actually voting.

Ward No.	Hindoos.		Europeans, Eurasians, &c.		Mahomedans.		Chinese.		Parsees.		Jews.		Total number of voters.
	In list.	Voted.	In list.	Voted	In list.	Voted.	In list.	Voted.	In list.	Voted	In list.	Voted.	
1	314	...	3	...	3	...	...	...	...	...	...	...	320
2	653	280	5	2	10	...	...	...	...	...	...	...	668
3	388	228	1	...	15	...	...	...	...	...	...	...	404
4	372	216	5	3	11	7	...	...	...	...	...	...	388
5	979	...	7	...	14	...	...	...	...	...	...	...	1,000
6	568	274	6	1	15	5	...			...	...	...	589
7	1,453	...	215	...	181	...	2	...	23		13		1,887
8	495	172	122	29	228	197	5	2			1	...	851
9	463	175	53	5	105	51	...	...			1	...	621
10	425	105	256	51	45	13	1	1	...	...	1	...	728
11	504	273	175	33	16	5	...	...	1	...	1	...	697
12	108	40	224	87	3	1	1		1	1	2	1	339
13	190	85	231	49	147	92	...		3	...	1	...	572
14	160	16	225	21	172	58	...	...	...	...	1	...	558
15	86	20	244	32	94	41	...	...	...	...	4	1	428
16	26	...	142	...	2	...	...	...	...	...	3	...	173
17	33	14	96	24	14	11	...	...	1	...	4	2	148
18	11	...	39	...	2	...	...	...	...		...	...	52
19	149	...	80	...	26	...	...	...	...	...	1	...	256
20	36	25	38	20	69	43	...	...	...	...	...	...	143
21	60	47	58	43	54	45	...	...	...	...	2	...	173
22	327	213	22	6	23	15	...	...	...	...	...	...	372
23	59	41	18	9	11	7	...	...	...	...	...	...	88
24	26	19	34	20	11	7	...	...	...		...	...	71
25	80	56	41	16	16	10	...	...	...	...	1	...	138
Total	7,984	2,308	2,340	445	1,286	608	9	3	29	1	36	4	11,664

" ANNEXURE F.

Ward No.	Total number of voters.	Voters having.											Total voting power.	Total vote given.
		12 votes.	11 votes.	10 votes.	9 votes.	8 votes.	7 votes.	6 votes.	5 votes.	4 votes.	3 votes.	2 votes.		
1	326	8		16	.....	21	1	26	9	68	31	150	1,217	*
2	668	46	1	10	14	20	13	51	16	100	139	258	2,750	1,391
3	404	11	1	6	......	6	4	19	7	108	45	197	1,389	852
4	388	11	4	4	5	11	3	17	14	101	28	191	1,403	999
5	1,000	81	10	34	15	84	7	65	38	145	180	382	4,369	*
6	589	20	1	6	4	21	4	45	11	140	44	283	2,171	975
7	1,887	183	13	44	80	41	33	84	67	168	484	750	8,031	*
8	851	21	3	13	7	16	13	52	28	137	134	425	2,977	1,419
9	621	6	3	7	4	15	4	38	3	158	59	324	2,059	764
10	728	18	1	2	3	4	5	38	28	85	161	383	2,208	634
11	607	7		5	1	12	6	33	30	156	106	341	2,253	193
12	330	93	3	10	8	10	6	23	16	32	102	34	2,187	878
13	572	27	6	5	8	24	13	30	24	83	98	251	2,181	875
14	658	12	...	8	4	8	8	24	26	111	06	256	1,878	323
15	428	18	3	8	14	14	12	40	37	68	105	109	1,841	326
16	173	52	13	12	15	25	6	14	4	13	15	4	1,473	*
17	148	20	0	9	18	21	17	28	5	1	10	13	1,098	318
18	52			.....	.....	1	1	5	3	14	15	14	187	*
19	956	11	1	3	1	7	5	19	11	50	41	107	979	*
20	143	5		...	....	5	2	7	8	13	26	77	480	300
21	173	8	1	3	3	2	9	16	11	18	25	77	695	550
22	372	15	.....	9	2	6	6	16	9	59	35	215	1,290	937
23	82	4	1	2	2	3	3	7	5	17	3	41	368	211
24	71	1	..	.....		...	1	3	2	5	16	43	201	132
25	138	12			2	7	2	15	7	29	17	47	618	303
Total	11,084	695	70	211	155	323	184	724	419	1,878	2,034	4,971	46,402	13,145

* No poll.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 11th May 1889.

Division	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.		*Western Districts.*			
Burdwan Divn.	1	Burdwan	May 11, '89	Nil	Weather—excessively hot. Rain urgently wanted. Price of rice 16 seers per rupee at Sudder, 14 seers at Culna, 15 3/16 seers at Cutwa, and 14½ seers at Ranigunge.
	2	Baukoora	" 11, '89	Nil	Weather—very hot. Rain badly wanted. Ploughing stopped in Sudder and much retarded in Bissenpore sub-division. Standing crops withering for want of moisture. Common rice 17½ seers per rupee at Sudder and 17½ seers at Bissenpore.
	3	Birbhum	" 11, '89	Nil	Weather—very hot and dry. No crops to report on. The prolonged absence of rain will scarcely allow of full preparation of the land for next crop. Price of rice stationary in the south of district, with a tendency to rise in the north.
	4	Midnapur	" 11, '89	0·15	Weather—slightly cooler. One slight storm with a little rain. *Boro* rice in Kasijora all reaped, and is a ten-anna crop. Ploughing everywhere interrupted for want of rain. Price of rice still rising.—Midnapur Rs. 2-8 per maund, Contai Rs. 2-10-8, Tumlook Rs. 2-12, and Ghatal Rs. 2-10.
	5	Hooghly	" 11, '89	Nil	Weather—hot with strong breezes from south and south-west. Sowing of early rice and ploughing retarded for want of rain. Price of coarse rice at Sudder Rs. 3-8 per maund, and at Jehanabad Rs. 2-8.
		Serampore	..	0·03	
		Howrah	" 11, '89	Nil	Weather—hot and dry. Rain badly wanted for *amun* cultivation. *Boro dhan* harvest nearly finished. Price of common rice at Sudder is 12 seers and at Ulubariya 13½ seers per rupee.
		Central Districts.			
Presidency Divn.	6	24-Perghs.	May 11,'89	Nil	Weather—very hot, dry and windy; occasionally cloudy. Prospects of crops unfavourable in consequence of continued drought. Sugarcane withering. Ploughing continues. Price of rice varies from 12¾ seers to 15 seers per rupee.
	7	Nuddea	" 11, '89	Nil	Weather—hot with strong south wind. Rain at Kooshtea, Meherpur, and Chooadanga has done much good. Ploughing going on. Indigo and sugarcane are the only crops in the fields. About four annas of early rice have been sown in parts of the Chooadanga sub-division.
		Kooshtea	...	1·24	
		Meherpur	...	0·60	
		Chooadanga	...	0·65	
	8	Khoolna	" 11, '89	Nil	Weather—hot with high wind. *Boro* harvest nearly completed; outturn good in Bagirhat, but bad elsewhere. Rain very much wanted everywhere, and all agricultural work is stopped. The poorer classes are suffering some distress in different parts on account of high prices, and in a group of villages in the Kaliganj thana: the food-supply is said to be insufficient.
	9	Jessore	" 11, '89	0·08	Weather—very hot. South-westerly winds still continue to blow. Rain badly wanted for sowing of *dhan* and jute in the Sudder, Narail, and Bongong sub-divisions. At Magura and in some parts of Jhenidah sowing has commenced. Prices of rice rising.
		Jhenidah	..	0·79	
		Magura	.	0·90	
	10	Moorshedabad	" 11, '89	Nil	Weather—very dry and abnormally hot. Southerly winds; dust-storms with thunder and lightning, but no rain. In consequence of want of rain *aus* rice has not been sown on one anna of the area usually sown with this crop, though the lands have been ploughed and prepared. Rain is much needed for *aus* sowings and for mulberry plants.
		Jungipore		0·39	
Rajshahye Divn.	11	Dinagepur	" 11, '89	Nil	Weather—very hot. Winds shifting from east to west. Jute plants reported to be withering. *Aus dhan* sowings backward. Only about half the usual area of sugarcane planted out. Rain urgently wanted.
	12	Rajshahye	" 11, '89	1·06	Weather—very hot. Sowing retarded for want of rain. Price of rice has fallen a little.
		Nattore	...	0·15	
	13	Rungpore	" 11, '89	0·03	Weather—sultry during the day time, but cool breezes at night. The jute and young rice continue to flourish, but the cry is still for rain. The population is largely dependent on wells, which are running dry, and hence great inconvenience and much disease.
		Kurigram	...	1·13	
	14	Bogra	" 11, '89	Nil	Weather—excessively hot with changing winds. In the middle of the district excessively dry. Rain is wanted in all parts, and in the middle of the district very urgently. The cultivation of rice, jute, and sugarcane is going on, but is in most places sadly retarded by the drought. The prospects of the growing crops are poor. Grass very scarce. There is a good deal of cattle disease in some places. Price of coarse rice risen to 17 seers a rupee.
		Sherpore	...	0·17	
		Nowkhilla	...	0·45	
	15	Pubna	" 11, '89	3·26	Weather—hot and unsettled. Rain fairly general, and prospects of crops improved. More rain wanted.
	16	Darjeeling	" 11, '89	0·70	Weather in Darjeeling vicinity has been extremely boisterous; in the plains very warm and dry. In the hills crops are progressing favourably. In Siliguri about ten annas of the *bhadoi* and jute sowings completed; rain badly wanted.
		Julpigoree	" 11, '89	1·07	Weather—hot and cloudy with east wind. Sowing of jute and paddy still going on. *Kaoni* and *cheena* are being harvested. More rain wanted. Common rice continues to sell at 17 seers a rupee.
		Eastern Districts.			
Dacca Divn.	18	Dacca	May 11, '89	Not given.	Weather—hot and cloudy with high wind. Good rain fell throughout the district. Cultivation of paddy crops still going on. Jute and paddy sown on low lands are thriving. *Boro dhan* nearly harvested; outturn expected to be 8 annas.
	19	Furreedpur	" 11, '89	0·39	Weather—hot and windy. Sowing of *dhan* is retarded for want of rain, and the young plants which have come up are suffering.
	20	Backergunge	" 11, '89	Nil	Weather—hot. Ploughing for *aus dhan* progressing, but *aus* seedlings are suffering for want of rain.
	21	Mymensingh	" 11, '89	0·14	Weather—hot in the day; nights still fairly cool. A storm at Tangail has done some damage. *Aus* and jute sowings nearly completed. Prospects good except in the Jamalpore and Tangail sub-divisions.
		Tangail	...	4·15	

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
Eastern Districts—concld.				
CHITTAGONG DIVN.				
22	Chittagong	May 11, '89	2·66	Weather—hot. A tornado reported from Chikaria in the Cox's Bazar sub-division, accompanied by sparks of fire, which wrecked the thannah and post-office houses, carrying away almirahs, boxes, &c., and depositing them in the river. State of miscellaneous crops fair. Lands are being prepared for *aus* paddy; and in some places it is being sown.
23	Noakholly	...	......	Report not received.
24	Tipperah	„ 11, '89	1·80	Weather—stormy. *Aus dhan* and jute all sown. Sowing of *amun dhan* is being completed. Crops doing well.
25	Chittagong Hill Tracts.	„ 10, '89	1·64	Weather—very sultry. First three days of the week cloudy and slightly rainy with strong south-west gales. Sowing in *jums* still continues, and about 12 annas finished. Gathering of tobacco is now over, but that of chillies still continues.
	Hill Tipperah	„ 11, '89	2·22	Weather—hot and windy with passing clouds. Sowing of *satya* paddy continues. Sugarcane is being planted. More rain wanted. Prices of food-grains rising.
BEHAR				
PATNA DIVN.				
26	Patna	May 11, '89	Nil	Weather—hot and sultry. Threshing and winnowing of *rubbi* crops almost finished. Fields are being prepared for *bhadoi* crops. *Cheena* doing well. *Boro* rice continues to be reaped. Prices of food-grains still rising.
27	Gya	„ 11, '89	Nil	Weather—very hot with strong wind in the day. Sugarcane is being irrigated. Opium weighments and threshing of *rubbi* crops finished. Prices of food-grains rising.
28	Shahabad	„ 11, '89	Nil	Weather—hot with variable winds. Sugarcane is being irrigated. Prices rising somewhat, but supplies of grain in markets plentiful. Large export going on.
29	Durbhunga	„ 11, '89	Nil	Dry weather continues. Easterly winds prevailing. Rain much needed in every part of the district. *Cheena* and *mung* are withering. Ploughing for *bhadoi* crops not progressing. Common rice selling at from 10 to 12¾ seers per rupee.
30	Mozufferpur	„ 11, '89	Nil	Weather—hot with hot winds. Lands are being prepared for *bhadoi*. Rain much wanted.
31	Sarun	„ 11, '89	Nil	Weather—very hot and dry. Rain wanted for *cheena* and indigo.
32	Chumparun	„ 11, '89	Nil	Weather—hot. Rain needed for all crops. Prospects of *cheena* extremely poor. Rice and *mung* are being sown. Prices have risen.
BHAGULPORE DIVN.				
33	Monghyr	„ 11, '89	Nil	Weather—very hot and sultry. Rain urgently wanted everywhere for ploughing. Indigo in the Beguserai sub-division promises well. Common rice selling at 13¼ seers per rupee in the Sudder station.
34	Bhagulpur	„ 11, '89	Nil	Weather—oppressively hot with no signs of rain. The continued drought is causing much anxiety, and prices are rising. In the north the withering of rice and *mung* in the low lands and delay in *bhadoi* sowings make prospects bad. In the south the delay is less serious. Indigo suffering. Sugarcane continues to do well.
35	Purneah	„ 11, '89	Nil	Weather—very hot and dry. There are no crops above ground. Seed that has been sown is dying for want of rain.
36	Maldah	„ 11, '89	Nil	Weather—hot and oppressive. Harvesting of *boro* paddy continues. Rain badly wanted for *bhadoi* rice, jute, and indigo, which are all withering for want of moisture. *Jali dhan* is being sown in the low lands. Prices of rice rising everywhere.
37	Sonthal Perghs.	„ 11, '89	Nil	Weather—intensely hot. Rain wanted everywhere. Sugarcane suffering from want of it. Estimated outturn of *boro dhan* reported from Rajmehal is about 14 annas. Prices show a tendency to rise. Relief works going on in Godda and Jamtara sub-divisions; large numbers flocking to latter work.
	Pakour	...	0·22	
ORISSA.				
ORISSA DIVN.				
38	Cuttack	„ 11, '89	Nil	Weather—dry but windy. Ploughing for *beali* and *sarad* rice delayed for want of rain. Harvesting of *dalua* rice over. Common rice sells at 14 seers 7 chittacks per rupee in town.
39	Pooree	„ 10, '89	Nil	Weather—seasonable. Rain is wanted for ploughing the lands for the ensuing *sarad* crops. Price of common rice varies from 21 seers to 14¼ seers in the Sudder sub-division and from 15¾ seers to 13 seers 2 chittacks in the Khoorda sub-division. Price of *kulthi* has also risen lately. The material condition of the poorer classes, who cannot get sufficient work, is beginning to cause anxiety.
40	Balasore	„ 10, '89	1·04	Weather—cooler at head-quarters, but very hot at Bhudruck. The rainfall has been very partial. Cultivation in the north of the district and in Bhudruck at a standstill for want of rain. Prices still rising.
CHOTA NAGPORE.				
South-West Frontier Agency				
CHOTA NAGPORE DIVN.				
41	Hazaribagh	May 11, '89	Nil	Weather—bright and intensely hot. Sugarcane reported to have been injured in places by the excessive heat and want of moisture. Rain wanted for ploughing. Prices stationary.
42	Lohardugga	„ 10, '89	Nil	Weather—very hot. The only crop on the ground is *tewa dhan* at head-quarters. Fields for cotton are in the course of preparation. Sugarcane doing well in the sub-division.
43	Singbhoom	„ 11, '89	Nil	Weather—intensely hot. Sugarcane thriving. Lac cultivation commenced and progressed to an extent of about eight annas.
44	Manbhoom	„ 11, '89	Nil	Weather—intensely hot. No crops on the ground except sugarcane. Great want of water throughout the district. Price of rice rising; it now sells from 14 to 20 seers the rupee. Outturn of *kusmi* lac from 6 to 8 annas.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 14th May 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of February, 1889.

IMPORTS INTO CALCUTTA.

Whence imported.	Food-grains. Rice and Paddy. Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Fibrous Products. Jute, raw.	Gunny bags.†	Oilseeds. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar. Drained.	Undrained.	Tobacco. Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
BENGAL.																		
Burdwan ...	1,77,854	37,908	2,01,546	...	5,859	...	2,07,405	...	7,905	1,317	...	126	...	15	...	203	..	10
Beerbhoom ..	61,296	...	61,296	...	609	...	61,905	...	6,020	...	...	...	...	455	...	...	...	...
Midnapore ...	2,45,576	16,034	2,56,004	...	1,700	...	2,57,704	252	150	3,285	...	...	...	75	50	402	22	..
Hooghly ...	49,086	58,023	85,913	...	4,591	22	90,526	45,447	378,240	1,077	68	...	282	...	227	3,394	6,212	212
24-Pergunnahs ...	2,15,247	31,448	2,36,152	50	8,826	...	2,45,028	73,868	450,315	190	25	...	1,216	..	18,723	33,966	1,343	264
Nuddea ...	20,870	1,274	21,166	1,860	76,109	1,415	1,00,556	2,194	140	26,392	1,098	...	5	351	257	7,876	1,796	...
Khulna ...	35,905	44,600	63,780	...	100	...	63,880	1,581	...	910	200	...	...	...	400	5,100	.	..
Jessore ..	40,976	14,300	49,914	...	11,310	...	61,224	6,302	...	9,031	62	8	9	...	204	31,805	605	...
Moorshedabad ...	4,455	...	4,455	713	4,606	123	9,897	1,845	...	225	528	...	...	616	...	...	2	2
Dinagepore ...	2,039	...	2,039	...	1,175	...	3,214	12,93[illegible]	103,740	...	684	...	...	..	...	...	1,840	...
Rajshahye ...	2,329	...	2,329	...	2,171	...	4,500	5,844	10,990	1,957	1,924	...	...	478	...	175	...	...
Rungpore ...	244	...	244	...	89	...	333	45,880	27,930	...	7,006	...	80	8	...	...	11,941	...
Bogra ...	13,805	...	13,805	...	...	...	13,805	475	...	...	143	...	...	...	...	...	...	.
Pubna ...	678	...	678	...	1,934	...	2,612	2,59,065	532,840	...	14,900	...	...	...	...	...	354	...
Darjeeling ...	...	...	...	...	2	...	2	446	7,945	...	...	73	...	...	...	...	92	...
Julpigoree ...	...	...	...	...	...	...	...	13,702	56,805	...	1,434	315	.	...	...	...	102	...
Dacca ...	15,532	...	15,532	...	2,554	...	18,086	3,22,755	...	...	3,233	1	5,095	...	...	54	63	...
Furreedpore ...	8,648	1,370	9,492	...	1,495	...	10,987	79,280	105	...	16,144	...	2,026	363	...	...	...	...
Backergunge ..	9,67,231	3,175	9,69,215	...	...	...	9,69,215	3,927	...	...	...	...	...	...	...	100	...	...
Mymensingh ...	4,062	...	4,062	...	2,023	...	6,085	1,00,164	2,000	...	442	...	...	...	...	...	...	...
Tipperah ...	18,031	...	18,031	...	..	...	18,031	2,525	...	...	...	...	...	...	...	...	...	...
Chittagong ...	2,000	...	2,000	...	...	...	2,000	...	...	...	...	78	3,772	...	...	...	...	...
Noakholly ...	20,5[illegible]6	850	21,097	...	200	...	21,297	...	...	...	...	...	...	...	...	...	..	...
Total of Bengal ..	19,05,930	2,12,512	20,38,750	2,029	1,25,353	1,560	21,68,292	9,78,400	1,585,125	44,993	47,891	601	12,485	2,361	19,861	83,075	24,378	488
BEHAR.																		
Patna ...	4	...	4	3,463	14,422	871	18,760	...	2,030	10,380	8,145	...	...	...	...	3 3	210	1,536
Gya ...	...	...	...	5,320		..	5,320	...	1,295	2,958	...	...	...	...	...	123	...	170
Shahabad ..	11,756	...	11,756	1,374	6,892	200	20,282	...	525	2,062	...	...	...	.	38	8,313	...	...
Mozufferpore ...	...	...	...	...	1,643	1,842	3,485	...	70	500	132	..	...	...	...	...	...	...
Durbhunga ..	1	...	1	599	1,688	...	2,288	...	140	2,171	2,308	...	2	..	...		76	3
Sarun ...	...	..	...	1,718	401	...	2,119	...	385	1,477	.	...	...	...	...	14	20	6
Chumparun ...	6	...	6	...	...	...	6	.	...	729	1,961	...	...	...	...	8	.	...
Monghyr ...	471	..	471	997	15,963	..	17,431	...	1,225	1,229	8,809	...	.	...	...	...	...	4
Bhagulpore	1,361	...	1,361	3,701	2,400	4,771	12,233	...	420	1,706	13,887	...	..	...	...	..	...	...
Purneah ...	244	.	244	628	2,207	5	3,084	1,900	...	2,104	4,460	1	.	..	...	..	100	...
Maldah ..	100	...	100	2,205	2,845	138	5,288	4,434	...	135	501	...	..	...	...	...	...	...
Sonthal Pergunnahs.	4	...	4	2,132	22,334	...	24,4[illegible]1	...	840	3,557	22,248	..	...	103	1	...	.	2
Total of Behar ..	13,947	..	13,947	22,128	70,795	7,887	1,14,757	6,334	6,930	28,089	62,509	1	2	103	30	8,811	406	1,776
ORISSA.																		
Balasore ...	67,419	3,351	69,543	..	1,047	.	70,590	485	1,500	25	893	...	...	...	...	.	4	...
CHOTA NAGPORE.																		
Hazaribagh ..		...	...	...	...	...	...	...	595	..	476	40	...		...	..	...	
Manbhoom ...	...	..	...	...	..		...	.	350	..	...	...	...		.		...	..
Total of Chota Nagpore.	...	...	...	...	...	...	...	...	945	...	476	40	.	...	..	...	...	...
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	19,87,320	2,15,803	21,22,240	24,757	1,97,195	9,447	23,33,639	9,85,300	1,594,500	74,007	1,11,769	642	12,487	2,461	19,900	91,886	24,789	2,26
OTHER PROVINCES.																		
Assam .	21,268	..	21,268	...	...	...	21,268	9,417	..		3,518	23,266	1,737	9	...	...		
North-Western Provinces and Oudh.	297	..	297	58,570	10,530	...	69,397	...	630	17,011	92,763	258	81,248	8	261	207	3	2
Punjab	13	...	13	2,421	8,463	8,605	19,502	. .	...	6,588	.	170	11,739	.	. .	. .		
Central Provinces	...	...	...	3,739	503	...	4,[illegible]42	..	280	1,419	..			10	.	.		...
Rajputana States	...	...	...	...	.	7	7	..	..	513	.	...	7,124	...		. .	.	...
Nepaul ...	...	...	...	106		.	106	..	...	...	433			. .	. .	. .	.	..
Bombay ...	.	..	...	...		.		...	.	...	..	.	10,873	2		. .		
Madras ...	..	...	...	...	13,064	...	13,064	. ..	.	..	. .	2	.	...	1,021	..	38	1
Mysore ...	...	.	...	...	.	...		.			...	.	..	.		.		
Pondicherry ..	..	2,706	1,729	...		...	1,729		. ..	..	. .	.		..			.	...
Burmah ..	1,371	...	1,371	...	97	..	1,468		.	.	..	.	2,046	...			9	
Other places ..	...	..	...	...		...		68	.		.	26		..	638	8	...	6
Grand Total of Imports in Feb. 1889	20,10,275	2,18,629	21,46,918	89,593	2,29,852	18,059	21,84,422	9,95,407	1,595,410	99,538	2,08,483	24,364	1,27,554	2,493	21,820	92,101	24,838	3,17
Grand Total of Imports in Feb. 1888	27,51,048	1,77,862	28,62,812	82,071	2,78,376	13,091	32,36,950	8,86,929	2,704,316	3,19,045	1,77,828	16,372	1,50,968	2,934	41,869	1,43,269	30,138	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of February, 1889, *was as follows :—*

	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar, Drained.	Sugar, Undrained.	Tobacco, Unmanufactured.	Tobacco, Manufactured.
EXPORTED FROM CALCUTTA— To Indian ports, viz.—																		
Bombay	4,45,630	30	4,45,649	...	13,921	10	4,59,580	...	11,05,850	...	. ..	1,012		...	1,301	...	265	
Other ports in Bombay ..	200	...	200	...	...	...	200	. ..	.	...	... .		. . .	...	.. .	...	...	...
Madras ...	60	...	60	...	7,116	136	7,312	...	223,113	. .	...	3	..	119	56	.	.	
Other ports in Madras ...	75,640	1,406	76,584	3	2,805	...	79,302	4,20,998	227,300	...	...	.. ..	...	23	20	1	...	
Burmah	7,391	...	7,391	2,930	17,115	1,170	28,612	261	2,342,950	... .	8	44	65	8	415	453	13,593	
Other Indian ports	...	...	...	7	2,201	1	2,209	...	162,608	...	...	1	5	...	913	577	1,803	
Pondicherry ...	...	...	...	159	...	...	159	...	216,500	... .	...	...		...	. ...	...	...	...
Total of Inter-portal trade ...	5,28,930	1,526	5,29,884	3,099	43,158	1,323	5,77,464	4,30,259	4,338,321	...	8	1,060	70	150	2,705	1,031	15,661	
To Foreign ports— United Kingdom	1,89,927	...	1,89,927	9,535	21,712	...	2,21,174	6,22,446	646,000	2,12,914	...	53,880	31,093	261	...	...	..	
Other Foreign ports	5,41,861	8,007	5,46,885	3,393	12,108	35	5,62,421	2,28,314	8,412,050	72,909	53	1,556	75,336	968	248	397	174	
Total of Foreign trade	7,31,808	8,007	7,36,812	12,928	33,820	35	7,83,595	8,50,760	9,058,650	2,85,883	53	55,436	1,06,429	1,229	248	397	174	
Grand Total of Exports in Feb. 1889	12,60,738	9,533	12,66,696	16,027	76,978	1,358	13,61,059	12,81,019	13,396,971	2,85,883	61	56,496	1,06,499	1,379	2,953	1,428	15,835	
Grand Total of Exports in Feb. 1888	19,67,180	12,883	19,75,232	10,864	1,54,466	2,053	21,49,215	7,29,874	15,507,921	4,50,585	29	37,250	1,23,062	1,528	16,232	366	9,872	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of February, 1889.

IMPORTS INTO CALCUTTA.

Specification of Routes.	Food-grains.					Fibrous Products.		Oilseeds.		Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar.		Tobacco.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	16,35,858	1,65,173	10,306	87,161	5,272	4,23,499	814,165	22,703	14,726	. . .	2,953	58	6,369	18,028	6,916	1,752
" river steamers ..	26,119	490	.	5,072		3,37,723	. . ..	3,545	2,701	23,063	2,366	25	151	2	63	... ..
" rail { East Indian Railway.	2,14,328	43,122	79,238	77,508	12,787	... ..	25,445	50,811	1,45,553	595	1,00,413	1,209	300	9,221	411	363
" rail { Eastern Bengal State Railway.	18,422	76	..	36,325	......	1,66,717	740,600	22,954	44,610	600	6,551	1,201	......	39,714	14,752	......
" road ...	51,476	3,651	50	9,578	......	66,302	13,700	......	.... .	......	... .	... ..	13,341	25,128	2,645	189
" sea	64,072	6,117	...	14,208	... ..	1,166	1,800	25	893	106	15,241	... ..	1,659	8	51	873
Grand total of Imports in February { 1889 ...	20,10,275	2,18,629	89,593	2,29,852	18,059	9,95,407	1,595,410	99,538	2,08,483	24,364	1,27,554	2,493	21,820	92,101	24,838	3,177
Grand total of Imports in February { 1888 ...	27,51,648	1,77,862	82,671	2,78,376	13,091	8,86,929	2,763,316	3,19,045	1,77,828	16,372	1,50,968	2,934	41,869	1,43,269	20,138	

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of February, 1889.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods. European.	Cotton piece-goods. Indian.	Cotton twist. European.	Cotton twist. Indian	Salt.	Gunny-bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	3,34,163	..	270	1,034	28,180	107,719
Beerbhoom ...	1,85,850	330	93	648	14,375	56,000
Midnapore	1,61,566	. ..	2,553	. . .	17,900	17,107
Hooghly .	88,741	3,805	419	89	3,008	39,770
24-Pergunnahs ...	1,35,738	5,755	308	. .	9,643	8,050
Nuddea ..	3,76,388	..	1,467	......	19,430	61,419
Khulna ...	77,480	... ..	103	... ..	8,100	70
Jessore ...	1,10,123		697	...	16,431	10,000
Moorshedabad ..	78,483	14,850	...	55	7,718	7,875
Dinagepore ...	90,027	. . ..	182	. ...	7,713	4,375
Rajshahye . .	2,50,425	.. . .	113	......	10,918	5,250
Rungpore ...	3,54,019	...	344	... ..	13,025	8,595
Bogra ..	1,21,968	... ..	42	.....	5,369	15,015
Pubna ...	1,61,595	... ..	358	... .	30,789	4,180
Darjeeling ...	83,916	......	151	8	5,627	1,505
Julpigoree	1,97,757	......	176	..	6,978	420
Dacca . .	6,85,918	. ....	2,072	420	17,445	11,905
Furreedpore ...	6,17,431	.	1,845		26,954	5,075
Backergunge ...	1,26,440	..	382	.	22,475	3,815
Mymensingh	1,36,143	......	...	.. .	15,575	865
Tipperah ..		.	.... .	. . ..	3,175	... .
Chittagong .	86,796		190	. ..	200	85,858
Noakholly ...	2,000	.. ..	... .	. . .	4,025	... ..
Total of Bengal .	44,57,567	24,740	11,764	2,260	2,94,053	4,55,468
BEHAR.						
Patna ...	3,44 484	1,540	146	38	14,696	70,140
Gya ..	1,54,864	5,170	40	351	13,524	18,410
Shahabad	3,88,143		6	144	14,352	10,220
Mosufferpore ...	1,08,045	.. .	....	12	7,822	5,580
Durbhunga ..	3,76,866	110	25	692	35,887	10,885
Sarun .	2,50,749	..	7	57	14,535	7,525
Chumparun ...	4,54,663	110	149	79	18,345	6,790
Monghyr ...	1,46,790	.. .	2	36	11,308	26,145
Bhagulpore .	3,52,170		67	190	17,544	49,655
Purneah .	1,68,891	.	222	633	12,940	8,475
Maldah			.. ..	..	6,580	1,650
Sonthal Pergunnahs	2,87,784	330	86	920	22,159	50,925
Total of Behar ..	30,71,439	7,260	750	3,152	1,89,672	2,66,400
ORISSA.						
Balasore .	2,10,800	.	6,866	..	13,661	76,750

Whither exported.	Cotton piece-goods. European.	Cotton piece-goods. Indian.	Cotton twist. European.	Cotton twist. Indian.	Salt.	Gunny-bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
CHOTA NAGPORE.						
Hazaribagh	77,364	110	... ..	27	6,372	1,330
Manbhoom	83,790	... .	57	1,439	6,015	1,925
Total of Chota Nagpore ...	1,61,154	110	57	1,466	12,387	3,255
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ...	79,00,900	32,110	19,437	6,878	5,09,773	801,873
OTHER PROVINCES.						
Assam	3,03,093	......	144	... ..	20,515	11,510
North-Western Provinces and Oudh	19,64,025	9,680	4,636	470	17,142	315,700
Punjab	6,30,693	6,270	721	... .	.. .	143,185
Central Provinces	38,430	... .	209	... ..	.. ..	163,735
Rajputana States	20,349	.... .	151	......	. ..	1,050
Berar	630	. ...	......	. . .	. .	13,685
Bombay	504	... ..	....	.	... .	1,165,850
Madras	26,760	... .	775	414	.	450,413
Pondicherry	4,005	. ...	. .	. .	. .	216,500
Burmah	1,88,174	......	661	2,606	......	2,342,950
Other places	19,086	2,868	10	5,233	82	9,058,650
Grand Total of Exports in February } 1889 ...	1,10,96,709	50,928	26,744	15,651	5,56,512	14,690,101
Grand Total of Exports in February } 1888 ...	1,37,33,409	30,462	28,169	18,717	8,58,105	16,887,320

The Sea-borne Trade of Calcutta in these Staples during the month of February 1889 *was as follows:—*

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	96,30,474	......	12,618	......	4,74,696	... ..
Other Foreign ports ...	73,684	... .	233	......	87,121	..
Total of Foreign Trade ...	97,04,158	......	12,851	... ..	5,61,817	.
From Indian Ports—						
Bombay	23,429	89,968	4	7,003	8,125	......
Madras	930	11,096	......	122	.	... .
Other ports in Madras ..	... ..	..	......	.... .	23,724	......
Burmah	1,400	1,000	......	......	... ..	...
Other Indian ports .	.....	25	......	10	......	1,500
Total of Interportal Trade ...	25,759	1,02,689	4	7,195	31,849	1,500
Grand Total of Imports in February { 1889	97,29,917	1,02,689	12,855	7,195	5,93,666	1,500
Grand Total of Imports in February { 1888 ..	1,03,58,082	2,33,980	18,759	11,431	6,11,054	216,086

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of February, 1889.

Specification of Routes.	Cotton piece-goods. European.	Cotton piece-goods. Indian.	Cotton twist. European.	Cotton twist. Indian.	Salt.	Gunny-bags.
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,41,803	4,105	2,498	......	2,27,573	70,616
" river steamers	5,89,684	..	1,045	426	11,830	43,884
" rail ... { East Indian Railway	64,7?,793	38,500	6,935	6,656	2,38,100	1,007,780
" rail ... { Eastern Bengal State Railway	32,09,976	... . .	7,361	8	46,794	103,775
" road	1,48,832	5,455	403	58	3,522	7,075
" sea	5,35,621	2,868	8,502	8,803	13,693	13,396,971
Grand Total of Exports in February ... { 1889 ..	1,10,96,709	50,928	26,744	15,651	5,58,512	14,690,101
Grand Total of Exports in February ... { 1888 ..	1,37,33,409	30,462	28,169	18,717	8,58,105	16,887,320

STATISTICAL DEPARTMENT,
The 11*th May,* 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 5th to 11th May 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
May	5th	152·2	9·7	29·712	88·7	94·3	12·2	82·1	81·5	0·978	78 5	72	SW and SSW ...	356	Nil	Chiefly cloudy.
"	6th	157·2	10 5	·764	89·0	94·2	11·7	82·5	81·7	·984	78·7	72	SSW and SW ...	279	"	Chiefly cloudy
"	7th	154·0	9 7	·764	88·8	95 0	14·8	80·2	81 2	·965	78·1	72	SSW, S and SW ...	230	"	Chiefly clear
"	8th	154·7	8·9	·752	89·0	96·7	16·4	80 3	81·4	·972	78·4	72	SSW, SW and S ...	259	"	Partially cloudy.
"	9th	154 3	8·0	·728	88·6	94·5	14·1	80·4	80·8	·950	77 7	71	SSW and SW .	298	"	Partially cloudy
"	10th	156 3	10 5	·665	89 6	97·4	16·1	81·3	80·0	·899	76·0	65	SSW and SW ...	336	"	Chiefly clear
"	11th	156 3	10 2	·636	89·7	97 7	16 4	81·3	82·1	·996	79·1	72	SW, SSW and S ...	318	"	Chiefly clear

	Inches.
The mean pressure of the seven days	29·717
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·679
	Hours.
The total number of hours of bright sunshine	67·5
The maximum possible number of hours of sunshine	91·4
	°
The mean temperature of the seven days	89·1
The average temperature of the corresponding period for 24 years, S.-G.'s Office	85 3
The extreme variation of temperature	17·5
The maximum temperature	97·7
	Miles.
The highest velocity of the wind in one hour	20
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	5
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	74
	Inches.
The total fall of rain from 5th to 11th May 1889	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·02
The total fall from 1st January to 11th May 1889	4·85
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	6·27

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 13th May 1889.

Meteorological Report of the Province of

Meteorological Division.	District.	Representative stations.	Station Observations — Air Pressure: Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Temperature: Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Humidity: Mean, 8 A.M., humidity.	Variation from normal mean.	Cloud: Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree	29·952	29·658	29·832	29 844	—	97·5	75·1	88·6	78·7	83·7	—	89	—	3·3	—	Nil
		Gopalpore	29·940	29·644	29·817	29·867	+·006	94·2	74·8	87·0	80·3	84·0	+2·4	79	—	0·8	—1·4	Nil
		False Point	29·920	29·643	29 822	29·844	0	98·5	71·6	89 4	78·3	83·0	—0·5	87	+3	4·4	+1·1	0·68
	Cuttack	Cuttack	29·873	29·570	29·765	29 846	+·020	112·4	71·8	103·0	79·3	91·2	+1·8	69	+6	3·6	+0·8	0·64
	Balasore	Balasore	29·881	29·562	29·767	29·826	+·004	110·5	64·7	99·5	77 2	88 4	+2·5	74	—	1·5	—	2·19
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs.	Saugor Island	29·906	29·614	29·810	29·887	+ 003	96·2	72·5	92·8	80 8	86 8	+2·3	70	—1	4·8	+0·3	Nil
	Midnapore	Midnapore	29·782	29·453	29·670	29·821	+·008	115 4	65·2	104·3	76·9	90·6	+1·4	63	—	1·4	—	0·89
	24-Pergunnahs, Howrah and Hooghly.	Calcutta	29·907	29·590	29·797	29·819	—·001	101·4	66 8	96 4	76 6	86 5	+1·1	77	+6	3·6	+1·0	1·31
	Burdwan	Burdwan	29·821	29·475	29·702	29·803	—·010	112·2	67·4	102·9	77·0	90 0	+2 3	64	+9	3·9	+1 0	1·36
	Bankoora	Bankoora	29·605	29·280	29 492	29·789	—	114·1	70 1	104·6	77 9	91·2	—	53	—	2·0	—	1·04
	West Burdwan and Beerbhoom.	Raniganj	29·606	29·250	29·478	29·785	+·009	114·0	69 6	104·9	78·3	91 6	+3·2	47	—	2 0	—	0·11
	Moorshedabad	Berhampore	29·852	29 540	29·736	29 804	—·005	109·7	65 2	103·4	75 7	89 6	+2·4	70	+11	4 8	+1·7	Nil
	Nuddea	Krishnagore	29 886	29·545	29·766	29 833	+·027	110·7	63·8	101 8	76·0	88 9	+3·5	69	—	3·3	—	0·51
	Jessore and Khoolna	Jessore	29·890	29·576	29·792	29·826	—·003	106·7	67 0	99·6	76 2	87·9	+2·1	81	+14	4·8	+1·3	2·02
East Bengal.	Chittagong	Chittagong	29·862*	29 645*	29·796*	29 886*	—·003	95·2	69·0	91 6	75 5	83·5	+2·1	76	—1	4 8	+0·8	3·52
	Chittagong Hill Tracts	Demagri	Observations not received.															
	Backergunge	Barrisal	29·928	29·647	29·833	29·845	+·011	99·3	68·4	94·1	76·6	85 4	+3 4	79	—	3 3	—	3 05
	Noakholly	Noakholly	29 597†	29·655†	29·804†	29·848†	—·013	96 0	65·9	90·8	75 5	83·2	+1 5	76	—	3 9	—	1·14
	Furreedpore	Furreedpore	29·905*	29 574*	29·792*	29 831*	—·006	103 5	66·4	95 1	75·0	85 1	+1·8	79	—	2·8	—	2·77
	Dacca	Dacca	29·927	29·646	29 8·1	29·8·4	—·005	104·0	66 7	96 9	75 5	86 2	+2 9	77	+4	5 5	+1·7	2·24
	Commillah	Commillah	29 895*	29·613*	29·804*	29·840*	—·013	99·3	65 8	94·7	74·3	84·5	+2·9	83	—	4·0	—	6 02
	Mymensingh	Mymensingh	29·896	29 615	29 775	29·834	+·007	101·5	65 4	92·2	72 7	82·4	+1·4	81	—	5·4	—	4·21
North Bengal.	Bogra	Bogra	29·869	29 570	29·738	29·802	+·014	106·6	65 4	99·9	72 9	86·4	+2·2	72	—	4·8	—	0·03 & §drops
	Pubna	Serajgunge	29·896	29 592	29 765	29 812	—·005	107 0	64 2	98·8	71·9	85 4	+2·1	75	—	4 6	—	1·05
	Rajshahye	Rampore Beauleah.	29·857	29 545	29 732	29·802	+·008	107·3	67·2	100·5	75·0	87·8	+3·	6	—	1·5	—	0·23
	Maldah	Maldah	29 810*	29·625*	29 729*	29·810*	—	105·3†	64 3†	102·2†	71·6†	86·9†	—	61	—	1·8	—	Nil
	Dinagepore	Dinagepore	29 838	29·531	29 696	29 818	+·018	102·6	61·2	97·2	71·7	84 5	+2·0	65	—	3 8	—	Nil
	Rungpore	Rungpore	29 853	29·503	29·713	29 810	+·023	99 9	60·5	93·8	69·7	81·8	+2·0	73	—	3·2	—	2·57
	Julpigoree and Cooch Behar.	Julpigoree	29 695	29·401	29·544	29 837	+·014	97 9*	56·9*	91·3*	65·8*	78·6*	+0·7	75†	—	2·4†	—	1·02†
	Darjeeling Hill Tracts...	Darjeeling	23 102	22 866	20 981	—	+·031	67·8‡	38·9*	62·1‡	40·7*	54·9§	+0·5	79	+4	5·6	—0·4	3·48
North Behar.	Purneah and North Bhagulpore.	Purneah	29·836	29·515	29 683	29·811	+·012	103·3	60·5	98 8	71·4	85·1	+1·6	63	+8	2·4	+0·8	Nil
	Mozufferpore	Mozufferpore	Observations suspended.															
	Durbhunga	Durbhunga	29 778	29·430	29·632	29 801	+·002	99·4	67·9	95·8	75·7	85·8	+2·2	55	+4	1·1	0	Nil
	Chumparun	Motihari	29·717	29·306	29·563	29·812	+·039	103·4	54·9	99·2	69 1	84 2	+2·1	47	—	3·5	—	Nil
	Sarun	Chupra	29·732†	29·394†	29·602†	29 797†	+·020	109·7*	66·6*	102·9*	74 0*	88·4*	+3·8	47	—	0 62	—	Nil
South Behar.	Shahabad	Dehree	29·633	29·242	29·447	29 800	+·021	111·4	71·0	103·8	77·3	90 6	+3·7	33	—	0·87	—	‡Nil
		Buxar	29·704	29·342	29·552	29 794	+·013	108·4	66·3	101·5	75·1	88 3	+2 4	36	—	1·7	—	‡drops 2 days
		Arrah	29·757	29·405	29·598	29·797	+ 023	109 4	65·7	102 2	73·8	88·0	+2·0	41	—	1·9	—	0 014 drops.
	Gya	Gya	29·571	29·232	29·438	29·816	+·022	111·1	68·2	103·6	77·1	90·4	+1·5	53	+14	2·6	+1·1	drops
	Patna	Bankipore	29·773	29·409	29·608	29·702	+·001	110·1	67·1	102·7	74·6	88·7	+2 0	48	+7	2·2	+0·2	Nil
	South Bhagulpore and Monghyr.	Bhagulpore	29·786	29 453	29·625	29·788	+·011	104 8	66·0	99·8	73·7	86·7	+2·5	62	—	1·7	—	Nil
	Sonthal Pergunnahs	Naya Doomka...	29·443	29·094	29·302	29·796	+·016	109 7	68·7	102 6	76·0	89·3	+2·7	44	—	0·2	—	0·59
Chota Nagpore.	Hazaribagh	Hazaribagh	27 993	27·642	29 831	29·814	+·019	106·0	66 7	98·0	74·3	86·1	+1·9	27	—2	3·7	+1·2	0 42
	Lohardugga, Manbhoom	Ranchee	27·841	27·530	27·714	29·814	+·026	105·0	65·9	97·3	74·2	85·8	+1·5	38	—	3·0	—	0·63
	Singbhoom	Chyebassa	29·173	28·858	29·038	29·818	+·030	113·3	69·4	104·2	77·5	90 9	+1·2	43	—	2·6	—	1·11 §drops
Assam	Assam	Sibsagar	29·667	29·408	29 561	29·905	+·008	93·4	62·4	82·9	67·4	75·2	+0·9	91	+10	0·7	—0·3	8·18
		Dhubri	29 856	29·565	29·718	29·837	+·003	99·0	66·2	90·8	71·8	81·3	+1·8	78	+10	5·6	+2·9	1·75
		Silchar	29·858	29 659	29·775	29·883	—·001	94·5	59·6	90·5	70·0	80·3	+1·9	83	+7	5·6	+0·6	13·45

* Mean of 29 days.
† „ of 28 „
‡ „ of 18 „
§ „ of 17 „

Bengal for the month of April 1889.

DISTRICT OBSERVATIONS.										Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.												
Of month.					Since 15th May 1888.							
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
0·20	1·05	−0·85	0·8	2·1	44·97	59·27	−14·30	73·0	90·4	Pooree .. / Gopalpore ... / False Point ...	Pooree	ORISSA.
0·44	1·07	−0·63	0·8	2·3	53·58	55·66	−2·08	79·5	87·3	Cuttack ...	Cuttack	ORISSA.
0·89	1·70	−0·81	1·2	3·6	55·56	58·09	−2·53	72·7	86·3	Balasore ...	Balasore ...	ORISSA.
0·42	1·70	−1·28	0·7	3·2	57·17	66·82	−9·65	73 4	93·6	Saugor Island ..	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
1·08	1·59	−0·51	3 7	3 1	66·35	55·83	+10·52	78·1	80·4	Midnapore ...	Midnapore	SOUTH-WEST BENGAL.
1·17	1·83	−0·66	2·7	4·0	66·27	56·90	+9·37	87·0	100·8	Calcutta ..	24-Pergunnahs, Howrah, and Hooghly.	SOUTH-WEST BENGAL.
0·91	2·20	−1·29	2 7	4·2	57·83	51·43	+6 40	80·3	85·2	Burdwan ...	Burdwan	SOUTH-WEST BENGAL.
1·17	1 19	−0 02	2 3	2·8	55·19	55·44	−0·25	80·4	90·6	Bankoora ...	Bankoora	SOUTH-WEST BENGAL.
0·09	1·19	−1·10	2·0	3·3	59·78	55·30	+4·48	91·1	91·6	Ramgunge ...	West Burdwan and Beerbhoom.	SOUTH-WEST BENGAL.
0·61	1·30	−0 69	1·5	3·0	50·58	52·83	−2 25	86·4	85·9	Berhampore ...	Moorshedabad	SOUTH-WEST BENGAL.
2 08	2·83	−0 75	2·4	4·7	58·32	55·15	+3·17	84·0	88 1	Krishnagore ..	Nuddea	SOUTH-WEST BENGAL.
2·32	3·27	−0 95	4·1	5·4	48·16	60 59	−12·43	83·4	96·9	Jessore ...	Jessore and Khoolna ..	SOUTH-WEST BENGAL.
1·74	2·79	−1·05	2·0	4·6	128·78	120 22	+8·56	107 5	118·0	Chittagong ..	Chittagong	EAST BENGAL.
2 04	3·45	−1·41	2·0	5·9	77·09	89·45	−12·36	103·5	126·6	Domagri ..	Chittagong Hill Tracts	EAST BENGAL.
1·91	2 88	−0 97	5·3	4·9	76·16	84·41	−8·25	92 1	118·5	Barrisal	Backergunge	EAST BENGAL.
3 07	4·14	−1·07	4 5	5·8	113 62	118·70	−5·08	100·0	123·2	Noakholly ...	Noakholly	EAST BENGAL.
2·86	3·54	−0 68	6·0	6·3	51 55	63·77	−12 22	78·6	100·9	Furreedpore ...	Furreedpore	EAST BENGAL.
2·48	4·50	−2·02	7·0	7 6	59 27	69·79	−10·52	94 5	106·5	Dacca ...	Dacca	EAST BENGAL.
5·27	4·91	+0 36	7·0	6·6	68·77	81·39	−12·62	90 5	112·8	Commillah ..	Commillah	EAST BENGAL.
4·68	3 72	+0 96	6·8	7·1	72 22	74 51	−2·29	101·2	103 2	Mymensingh ..	Mymensingh	EAST BENGAL.
0·48	1·63	−1 15	1·5	3·7	43·95	60 75	−13·80	83 7	86 3	Bogra ...	Bogra	NORTH BENGAL.
1·60	2·76	−1·16	5·0	5·9	44·09	59·19	−15·10	99·5	92 2	Serajgunge .	Pubna	NORTH BENGAL.
0·72	1·74	−1·02	2·5	3·4	45·67	57·62	−8·95	87 0	85·0	Rampore Beauleah.	Rajshahye	NORTH BENGAL.
Nil	0·98	−0·98	0·0	2·5	43·85	57·10	−13·25	79 0	91·6	Maldah ..	Maldah	NORTH BENGAL.
Nil	1·17	−1·17	0 0	2·6	49·51	58 47	−8·96	78·9	83·8	Dinagepore ...	Dinagepore	NORTH BENGAL.
2·94	3·38	−0·44	3·5	5·1	62·34	78 67	−16·33	84·2	85 0	Rungpore ..	Rungpore	NORTH BENGAL.
1·78	4·48	−2·70	4·6	7·1	92·12	117·26	−25·14	102·4	109·6	Julpigoree ...	Julpigoree and Cooch Behar.	NORTH BENGAL.
2·80	4·93	−2·13	10·8	9·9	107·96	128·64	−20·68	139·5	130·5	Darjeeling ...	Darjeeling Hill Tracts.	
0·09	1·13	−1·04	0·2	2·3	51·38	60·15	−8·77	74·0	75·1	Purneah ...	Purneah and North Bhagulpore.	NORTH BEHAR.
Nil	0·58	−0·58	0·0	1·3	44·01	44·79	−0·78	69·3	61·9	Mozufferpore ..	Mozufferpore	NORTH BEHAR.
Nil	0·64	−0 64	0·0	1·4	43·21	45·75	−2·54	69·7	61·3	Durbhunga ...	Durbhunga	NORTH BEHAR.
Nil	0·69	−0 69	0·0	1·4	44 81	48 03	−3 22	69·0	57·7	Motihari ...	Chumparun	NORTH BEHAR.
Nil	0·26	−0·26	0·0	1·1	41·69	44·08	−2·39	68·0	61·4	Chupra ...	Sarun	NORTH BEHAR.
Nil	0·16	−0·16	0·0	0·7	44·42	41·34	+3·08	66·8	65·2	Dehree ... / Buxar ... / Arrah ...	Shahabad	SOUTH BEHAR.
0·04	0·26	−0·22	0·5	0·9	52·91	42·81	+10·10	71·2	61·3	Gya ...	Gya	SOUTH BEHAR.
Nil	0·24	−0·24	0·0	1·1	51·22	42·55	+8·67	71·3	66·4	Bankipore ...	Patna	SOUTH BEHAR.
Nil	0·52	−0·52	0·0	1 2	52·38	44 60	+7·78	79·8	70·7	Bhagulpore ...	South Bhagulpore and Monghyr.	SOUTH BEHAR.
0·24	0·75	−0·51	1·0	1·9	55·62	52·35	+3·27	88 2	81·0	Naya Doomka...	Sonthal Pergunnahs .	SOUTH BEHAR.
0·47	0·27	+0·20	1·8	1·1	59·06	52 41	+6·65	90·2	87·2	Hazaribagh ...	Hazaribagh	CHOTA NAGPORE.
0·59	0·35	+0·24	3 0	1·8	52·88	50 91	+1·97	88·1	92·7	Ranchee ...	Lohardugga	CHOTA NAGPORE.
0·66	0·74	−0·08	2·5	2·8	48·80	49·37	−0·57	98·5	91·8	Ranchee ...	Maunbhoom	CHOTA NAGPORE.
1·19	0·70	+0·49	3·0	3 0	42·49	54 30	−11·81	75·0	101·5	Chyebassa ...	Singbhoom	CHOTA NAGPORE.
......	......	......	......	......	......	......	......	......	......	Sibsagar... ..	Assam	ASSAM.
......	......	......	......	......	......	......	......	......	......	Dhubri	Assam	ASSAM.
......	......	......	......	......	......	......	......	......	......	Silchar	Assam	ASSAM.

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA	Pooree	Pooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khurdah	...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...	...
		Banpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		False Point	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gop	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	0·83	...	...	...	...	...	...
		Kendrapara	...	...	...	...	...	...	...	...	...	...	...	...	...	0·72	...	...	...	...	...	...
		Jajpore	...	...	...	...	...	...	...	...	...	...	...	...	0·58	...	...	...	...	...	...	...
		Dharmsalla	...	...	...	...	...	...	...	...	...	...	...	...	1·25	...	...	...	...	...	...	...
		Salipore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·70	...	...	...	...	...	...
	Balasore	Chandbali	...	...	...	...	...	...	...	...	...	...	...	...	0·80	...	...	...	...	...	...	...
		Bhuddruck	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sorah	...	...	...	...	...	...	...	...	...	1·20	...	...	0·07	...	...	...	...	...	...	...
		Balasore	...	...	...	...	...	...	...	...	...	1·51	...	...	...	...	...	...	...	...	...	...
		Jellasore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baripodah	...	...	...	...	...	...	...	...	...	...	1·10	...	0·05	...	...	0·58	...	...	...	...
SOUTH WEST BENGAL.	Midnapore	Contai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tumlook	...	...	...	...	...	...	...	...	0·20	...	0·50	...	...	...	...	...	...	...	...	...
		Midnapore	...	...	...	...	...	...	...	...	0·50	...	0·57	0·10	...	...	...	...	...	0·20	...	...
		Ghatal	...	...	...	...	...	...	...	...	0·16	0·21	0·34	...	...	...	...	0·23	...	...	...	...
		Kukrahaty	...	...	...	...	...	...	...	...	...	0·24	0·85	...	...	...	...	...	...	...	...	...
		Heria	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	...	...	...	...	...
		Bhagwanpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garbeta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Pergunnahs	Diamond Harbour.	...	...	...	...	...	...	...	...	0·07	...	1·20	...	...	...	...	...	...	...	...	...
		Canning Town	...	...	...	...	...	...	...	...	0·09	...	0·96	...	...	...	...	...	...	...	...	...
		Alipore Jail	...	...	...	...	...	...	...	...	0·11	1·07	1·04	...	...	...	...	...	...	...	...	...
		Barrackpore	...	...	...	...	...	...	...	...	...	0·53	0·30	...	...	...	...	...	...	...	...	...
		Dum-Dum	...	...	...	...	...	...	...	...	...	0·08	0·58	...	...	...	...	...	...	...	...	...
		Barasat	...	...	...	...	...	...	...	...	...	0·10	0·30	...	...	...	...	...	...	...	...	...
		Buseerhat	...	...	...	...	...	...	...	...	...	...	0·62	...	...	...	...	...	...	...	...	...
	Howrah	Howrah	...	...	...	...	...	...	...	...	0·01	0·02	1·15	...	...	...	...	...	...	...	...	...
		Mohesreka (*Ooloobertah*).	...	...	...	...	...	...	...	...	...	...	0·89	...	...	...	...	...	...	...	...	...
	Hooghly	Serampore	...	...	...	...	...	...	...	...	0·03	0·41	0·44	...	...	...	...	...	...	...	...	...
		Hooghly	...	...	...	...	...	...	...	...	0·04	0·02	1·56	...	...	...	...	0·08	...	...	...	...
		Jehanabad	...	...	...	...	...	...	...	...	0·15	0·85	0·45	...	...	...	...	0·09	...	...	...	...
	Burdwan	Culna	...	...	...	...	...	...	...	...	...	0·84	0·20	...	...	...	...	...	...	...	...	...
		Burdwan	...	...	...	...	...	...	...	...	0·10	0·62	0·29	...	...	...	...	0·35	...	...	...	...
		Culwa	...	...	...	...	...	...	...	...	0·16	...	0·18	...	...	...	...	...	...	...	...	...
		Raneegunge	...	...	...	...	...	...	...	...	...	0·04	0·06	...	...	...	...	...	...	...	...	...
		Mankur	...	...	...	...	...	...	...	...	...	0·42	...	...	...	...	...	...	...	...	...	...
	Bankoora	Bankoora	...	...	...	...	...	...	...	...	0·98	0·03	0·43	...	...	...	...	...	...	...	...	...
		Bishenpore	...	...	...	...	...	...	...	...	...	0·81	0·24	...	...	...	...	...	...	...	...	...
		Maliara	...	...	...	...	...	...	...	...	0·22	...	0·18	...	...	...	...	...	...	...	...	...
		Khatra	...	...	...	...	...	...	...	...	0·08	...	1·10	...	...	...	...	...	...	...	...	...
		Indas	...	...	...	...	...	...	...	...	...	0·75	0·93	...	...	...	...	...	...	...	...	...
		Kotalpore	...	...	...	...	...	...	...	...	...	0·44	0·76	...	...	...	...	...	...	...	...	...
		Anda	...	...	...	...	...	...	...	...	0·15	0·10	...	...	...	...	...	...	...	...	...	...
		Gangajalghati	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...	...	...	...	...
		Raipore	...	...	...	...	...	...	...	...	...	...	0·56	0·30	...	...	...	...	...	...	...	...
		Sonamukhi	...	...	...	...	...	...	...	...	1·19	0·19	0·15	...	...	...	...	...	...	...	...	...
	Beerbhoom	Bh. Soory	...	...	...	...	...	...	...	...	0·01	...	0·01	0·01	...	...	...	...	...	...	...	...
		Hetampore	...	...	...	...	...	...	...	...	0·12	...	0·11	...	...	...	...	...	...	...	...	...
		Rampore Haut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bolpur	...	...	...	...	...	...	...	...	...	...	...	0·18	...	...	...	...	...	...	...	...
		Murarai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nuddea	Ranaghat	...	...	...	...	...	...	...	...	0·14	0·49	0·29	...	...	...	...	...	...	...	...	...
		Kishnaghur	...	...	...	...	...	...	...	...	0·48	...	0·03	...	...	...	...	...	...	...	...	...
		Choodanga	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	0·45	...	...	...	...
		Meherpore	...	...	...	...	...	...	...	...	...	2·40	...	0·49	...	...	...	4·50	...	...	...	...
		Kooshtea	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·46	...	...	0·39	...
	Khoolna	Satkhira	...	...	...	...	...	...	...	...	...	0·18	0·56	...	...	...	0·51	...	...	...	...	...
		Bagirhat	...	...	...	...	...	...	...	...	...	0·62	0·15	...	...	...	0·24	...	...	...	...	...
		Khoolna	...	...	...	...	...	...	...	...	...	0·10	0·59	...	...	...	...	...	...	...	0·28	...
	Jessore	Narail	...	...	...	...	...	...	...	...	...	0·54	0·16	...	...	...	1·77	...	...	...	...	0·14
		Jessore	...	...	...	...	...	...	...	...	...	0·63	0·14	...	...	...	1·07	0·75	...	...	...	0·03
		Jhenidah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·85	...	...	...	...
		Magoorah	...	...	...	...	...	...	...	...	0·02	0·07	0·01	0·21	...	...	...	0·15	...	...	0·39	...
		Bongong	...	...	...	...	...	...	...	...	...	0·47	0·35	...	...	...	...	...	...	...	...	...
	Moorshedabad	Kandi	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...	...	...
		Berhampore	...	...	...	...	...	...	...	...	...	...	0·03	...	...	...	...	...	...	0·05	...	...
		Lalbagh	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	0·95	...	...	...	...	...
		Azimgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·13	...	...	...	...	...
		Jungipore	...	...	...	...	...	...	...	...	0·07	0·27	...	...	...	...	0·55	...	...	...	...	...
		Lalgola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	...	...
		Jiagunge	...	...	...	...	...	...	...	...	0·02	...	0·30	...	...	...	...	0·12	...	...	...	...
		Akhriganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Patkabari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...
EAST BENGAL	Chittagong	Cox's Bazar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	...
		Chittagong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kutubdia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Satkanya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong Hill Tracts.	Rangamati	...	...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ruma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Backergunge.	Patuakhally	...	...	...	...	...	...	...	...	...	...	0·45	...	...	...	0·32	...	...	...	...	...
		Perozepore	...	...	...	...	...	...	...	...	...	0·19	0·48	...	...	...	0·79	...	...	...	...	...
		Burrisal	...	...	...	...	...	...	...	...	...	0·37	0·15	...	...	...	0·17	...	...	...	...	...
		Bhola	...	...	...	...	...	...	...	...	...	0·13	0·19	...	...	...	0·18	...	...	...	...	...
		Gournaddi	...	...	...	...	...	...	...	...	...	0·70	0·41	...	...	...	0·50	...	...	...	...	...
		Bauphal	...	1·00	...	...	...	...	...	...	...	...	0·09	...	0·03	...	0·20	...	...	...	...	...
	Noakholly	Noakholly	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	0·24	...	...	...	...	...
		Fenny	...	...	0·85	...	...	...	...	...	...	0·20	0·25	...	...	...	...	...	...	...	...	...

in Bengal in April 1889.

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 30th April 1889	Average rainfall from 1st January up to 30th April 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·85	Nil	0·17	2·73	Pooree ...	Pooree ..	ORISSA.
...	...	0·02	...	...	...	...	...	...	...	2	2·8	0·12	0·63	0·10	0·29	2·35	Khurdah.		
...	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·04	Nil	0·22	2·43	Banpur.		
...	...	0·08	...	...	...	...	...	...	...	1	2·0	0·68	2·12	0·68	2·72	4·70	False Point.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·64	?	*Gop.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Pipli.*		
...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·68	Nil	2·43	2·50	Jagatsingpore.	Cuttack.	
...	...	0·06	...	...	...	...	...	...	...	1	2·2	0·06	0·39	0·06	1·39	2·65	Banki.		
...	...	...	...	...	...	...	...	...	...	1	3·1	0·83	1·39	0·83	1·19	3·48	Cuttack.		
...	...	...	...	...	...	...	...	...	...	1	1·9	0·72	1·04	0·72	2·11	3·04	Keudrapara.		
...	...	...	...	...	...	...	...	...	...	1	2·9	0·58	1·74	0·58	1·84	4·51	Jajpore.		
...	...	...	...	...	...	...	...	...	...	1	?	1·25	?	1·25	2·00	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	1	?	0·70	?	0·70	1·60	?	*Salipore.*		
...	...	...	...	...	...	...	...	...	...	1	2·1	0·80	1·00	0·80	2·90	3·56	Chandbali .	Balasore.	
...	...	...	...	...	...	...	...	...	...	Nil	3·9	Nil	1·88	Nil	2·49	4·94	Bhuddruck.		
...	...	...	...	...	...	...	...	...	...	2	3·5	1·27	1·80	1·20	3·54	4·40	Sorah.		
...	...	...	...	...	...	...	...	...	...	1	5·1	1·51	2·96	1·51	2·23	6·56	Balasore.		
...	...	...	...	...	...	...	...	...	...	Nil	2·7	Nil	1·33	Nil	1·14	3·97	Jellasore.		
...	...	...	...	...	...	...	...	...	...	3	4·0	1·73	1·39	0·58	3·70	3·68	Baripodah.		
...	...	...	...	...	...	...	...	...	...	Nil	2·9	Nil	1·44	Nil	1·94	4·26	Contai ...	Midnapore.	
...	...	...	...	...	...	...	...	...	...	Nil	3·4	Nil	1·25	Nil	1·51	4·05	Saugor Island.		
...	...	...	...	...	...	...	...	...	...	2	2·6	0·70	1·59	0·50	3·10	4·90	Tumlook.		
...	...	...	...	...	...	0·03	...	...	...	5	3·6	1·40	1·63	0·57	3·67	4·74	Midnapore.		
...	...	...	...	...	...	...	...	...	...	4	3·2	1·14	1·75	0·54	2·90	4·67	Ghatal.		
...	...	...	...	...	...	...	...	...	...	2	?	1·09	?	0·85	3·32	?	*Kukrahaty.*		
...	...	...	...	...	...	0·02	...	...	...	2	?	0·14	?	0·12	1·99	?	*Heria.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·27	?	*Bhagwanpore.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	2·05	Nil	1·48	5·10	*Garbeta.*		
...	...	...	...	...	...	...	...	...	...	2	3·3	1·27	2·27	1·20	3·09	5·91	Diamond Harbour.	24-Pergunnahs	
...	...	...	...	...	...	...	...	...	...	2	?	1·05	?	0·90	3·08	?	*Canning Town.*		
...	...	...	...	...	...	0·21	...	...	...	4	4·0	2·45	1·84	1·07	6·48	5·72	Alipore Jail.		
...	...	...	...	...	...	...	...	...	...	2	4·1	0·83	1·76	0·53	2·76	5·13	Barrackpore.		
...	...	...	...	...	...	...	...	...	...	2	3·9	0·66	1·96	0·58	4·54	5·21	Dum-Dum.		
...	...	...	...	...	...	...	...	...	...	2	3·6	0·40	1·94	0·30	3·71	5·38	Baraset.		
...	...	...	...	...	...	...	...	...	...	1	4·1	0·62	2·06	0·62	2·64	5·61	Buseerhat.		
...	...	...	...	...	...	...	...	...	...	3	4·4	1·18	1·99	1·15	4·94	5·73	Howrah ...	Howrah ...	SOUTH-WEST BENGAL.
...	...	...	...	...	...	0·55	...	...	...	2	3·5	1·44	1·47	0·89	5·03	4·67	Mohesrekha (*Oolooberiah*).		
...	...	...	...	...	...	...	...	...	...	3	4·4	0·88	1·94	0·44	3·12	4·94	Serampore ..	Hooghly.	
...	...	...	...	...	...	...	...	...	...	4	4·4	1·70	2·66	1·56	3·08	6·17	Hooghly.		
...	...	...	...	...	...	...	...	...	...	4	3·5	1·54	1·89	0·85	3·87	4·67	Jehanabad.		
...	...	...	...	...	...	...	...	...	...	2	3·6	1·04	2·32	0·84	2·45	5·12	Culna ...	Burdwan.	
...	...	...	...	...	...	...	...	...	...	4	5·1	1·36	2·30	0·62	2·24	4·66	Burdwan.		
...	...	...	...	...	...	...	...	...	...	2	3·8	0·34	1·72	0·18	1·97	4·56	Cutwa.		
...	...	...	...	...	0·01	...	...	...	...	3	3·2	0·11	1·21	0·06	2·43	3·36	Raneegunge.		
...	...	...	...	...	...	...	...	...	...	1	?	0·42	?	0·42	3·03	?	*Mankur.*		
...	...	...	...	...	...	...	...	...	...	3	3·6	1·44	1·60	0·98	2·95	4·40	Bankoora	Bankoora.	
...	...	...	...	...	...	...	...	...	...	2	2·9	1·05	1·60	0·81	5·05	4·16	Bishenpore.		
...	...	...	...	...	...	...	...	...	...	2	2·5	0·40	0·87	0·22	2·37	2·56	Mulara.		
...	...	...	...	...	...	...	...	...	...	2	2·1	1·78	0·83	1·10	3·45	3·12	Khatra.		
...	...	...	...	...	...	...	...	...	...	2	?	1·68	?	0·94	2·63	?	Indas.		
...	...	...	...	...	...	...	...	...	...	2	?	1·20	?	0·76	4·54	?	Kotalpore.		
...	...	...	...	...	...	...	...	...	...	2	?	0·25	?	0·15	1·95	?	Auda.		
...	...	...	...	...	...	...	...	...	...	1	?	0·25	?	0·25	2·34	?	Gangajalghati.		
...	...	...	...	...	...	...	...	...	...	2	?	0·86	0·85	0·56	2·04	3·10	*Raipore.*		
...	...	...	...	...	...	...	...	...	...	3	?	1·53	?	1·19	3·69	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	...	...	3	3·7	0·03	0·91	0·01	2·79	3·00	Bh. Soory .	Beerbhoom.	
...	...	...	...	...	...	...	...	...	...	1	3·0	0·12	1·06	0·12	2·76	3·05	Hetampore.		
...	...	...	...	...	...	...	...	...	...	1	3·1	0·11	1·44	0·11	5·14	3·68	Rampore Haut		
...	...	...	...	...	...	...	...	...	...	1	?	0·18	?	0·18	2·85	?	*Bolpur.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Murarai.*		
...	...	...	...	...	...	...	...	...	...	3	3·8	0·92	2·89	0·49	3·57	5·74	Ranaghat ...	Nuddea.	
...	...	...	...	...	...	...	...	...	...	2	4·6	0·51	2·40	0·48	2·63	5·07	Kishnaghur.		
...	...	...	...	...	...	...	...	...	...	2	4·8	0·75	2·73	0·45	3·44	6·00	Chooadanga.		
...	...	...	...	...	...	...	...	...	...	3	4·5	7·39	3·15	4·50	12·62	6·74	Meherpore.		
...	...	...	...	...	...	...	...	...	...		5·8	0·85	2·90	0·46	2·18	6·16	Kooshtea.		
...	...	...	...	...	...	...	...	...	...	2	4·8	0·74	2·82	0·56	4·08	6·68	Satkhira ..	Khoolna	
...	...	...	...	...	...	1·80	0·38	...	...	5	4·1	3·46	3·39	1·80	5·10	7·09	Bagirhat.		
...	...	...	...	...	...	1·57	...	...	...	5	5·7	2·73	3·19	1·57	4·08	7·08	Khoolna.		
...	...	...	...	...	...	0·11	...	...	...	5	6·5	2·72	3·19	1·77	5·28	6·91	Narail ...	Jessore.	
...	...	...	...	...	...	...	...	...	...	5	6·7	2·62	4·38	1·07	4·32	7·82	Jessore.		
...	...	...	...	...	...	...	...	...	0·75	2	5·3	2·60	3·34	1·85	4·05	6·84	Jhenidah.		
...	...	...	...	...	...	...	...	...	2·06	7	6·2	2·91	3·90	2·06	4·51	7·66	Magoorah.		
...	...	...	...	...	...	...	...	...	...	2	4·2	0·82	2·64	0·47	2·74	5·79	Bongong.		
...	...	...	...	...	...	...	...	...	...	1	3·1	0·10	1·56	0·10	2·50	3·81	Kandi ...	Moorshedabad.	
...	...	...	...	...	...	...	...	...	...	Nil	3·1	Nil	1·86	Nil	2·57	4·38	Berhampore.		
...	...	...	...	...	...	...	...	...	...	2	2·4	0·08	1·15	0·06	2·96	3·37	Lalbagh.		
...	...	...	...	...	...	...	...	...	...	2	3·1	1·45	1·33	0·95	4·71	3·65	Azimgunge.		
...	...	...	...	...	...	...	...	...	...	3	3·1	1·47	1·21	1·13	5·50	3·13	Jungipore.		
...	...	...	...	...	...	...	...	...	...	1	3·0	0·55	1·26	0·55	4·09	3·45	Lalgola.		
...	...	...	...	...	...	...	...	...	...	4	?	0·69	?	0·30	3·62	?	Jangunge.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·77	?	*Akhigunj.*		
...	...	...	...	...	...	...	...	...	...	1	?	0·50	?	0·50	1·00	?	*Patkabari.*		
...	...	...	...	...	...	...	...	...	...	Nil	4·0	Nil	2·40	Nil	1·06	5·37	Cox's Bazar ..	Chittagong .	EAST BENGAL.
...	...	...	0·02	...	...	...	...	3·29	0·01	4	5·2	3·47	4·59	3·29	4·95	5·20	Chittagong.		
...	...	...	...	...	...	...	...	1·26	...	1	?	1·26	?	1·26	2·09	?	*Kutubdia.*		
...	...	...	...	...	...	...	...	0·64	...	1	?	0·64	?	0·64	1·55	?	*Satkanya.*		
...	...	...	0·04	...	0·90	...	...	3·04	...	4	6·1	4·08	4·01	3·04	6·34	8·55	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	...	...	Nil	5·3	Nil	3·30	Nil	1·74	6·97	Ruma.		
...	...	...	...	...	...	...	...	0·45	...	3	4·5	1·22	2·03	0·45	4·24	6·60	Patuakhally	Backergunge.	
...	...	...	...	...	...	0·48	1·14	...	...	5	4·1	3·08	2·07	1·14	4·30	6·16	Perozepore.		
...	...	...	...	...	...	0·52	0·51	0·02	0·02	7	6·3	1·70	3·56	0·52	4·59	7·54	Burrisal.		
...	...	...	0·22	...	...	0·60	0·26	...	...	6	4·7	1·58	3·44	0·60	4·17	7·25	Bhola.		
...	...	...	2·72	...	...	...	...	0·49	...	5	?	4·82	?	2·72	7·37	?	*Gournaddi.*		
...	...	...	0·11	...	...	...	...	...	...	5	?	1·43	?	1·00	2·85	?	*Bauphal.*		
...	...	...	...	...	...	0·16	...	0·46	...	4	5·4	1·06	4·21	0·46	5·73	8·47	Noakholly ...	Noakholly.	
...	...	...	0·92	...	...	...	...	2·85	...	5	6·2	5·07	4·79	2·85	9·97	10·69	Fenny.		

Table of Rainfall recorded at Stations.

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL—*concld.*	Noakholly—*concld.*	*Harishpore*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	...	...	...
		Ramganj	...	0·33	...	...	...	...	...	...	...	...	0·31	0·18	...	...	...	...	...	...	...	...
	Furreedpore	Madaripore	...	...	...	...	...	...	...	...	...	...	...	0·70	...	0·28	...	...	...	...	...	...
		Furreedpore	...	0·43	...	...	...	...	...	...	...	...	0·24	...	...	1·40	0·42	...	...	...	0·16	...
		Goalundo	...	...	...	...	...	...	...	...	...	...	...	...	...	0·58	0·24	...	0·85	1·57	...	...
	Dacca	Munshigunge	...	...	...	...	...	...	...	...	0·70	0·05	0·50	0·06	...	0·16	0·15	...	...	...	...	0·31
		Dacca	...	...	...	...	...	...	...	...	...	...	...	...	...	1·42	...	...	...	...	0·08	0·08
		Naraingunge	...	...	...	...	...	...	...	...	...	0·02	0·61	...	...	0·22	0·02	...	...	...	...	0·05
		Manickgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	1·00	0·10	...	...	...	0·21	...
		Joydebpore	...	...	...	...	...	...	...	...	...	...	0·17	...	...	0·60	0·20	...	0·94	...	0·46	...
	Hill Tipperah	Agartola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·52	...	0·80	...	...	...
	Tipperah	Comilla	...	...	0·49	...	...	...	...	...	0·65	0·04	0·85	0·07	...	...	0·46	...	...	...	...	...
		Chandpore	...	...	...	...	...	...	...	...	...	0·20	...	...	0·22	...	0·38	...	...	...	...	...
		Brahmunbaria	...	...	...	0·06	...	...	...	...	...	...	0·09	0·03	...	...	0·94	...	0·79	0·84	...	...
		Ramchandra-pore.	...	0·03	...	...	...	...	...	...	0·03	...	0·72	...	...	...	0·33	...	0·21	0·03	...	...
		Nasirnagar	...	0·15	...	...	...	...	...	...	...	0·50	...	0·53	...	...	0·60	...	0·06	0·10	...	...
		Daudkandi	...	...	...	...	...	...	...	...	1·50	...	...	...	...	...	...	...	...	...	...	...
		Kasba	...	...	...	...	...	...	...	...	...	...	0·08	...	...	...	0·70	...	...	0·73	...	1·50
		Laksham	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mymensingh	Kishoregunge	...	1·19	...	...	...	...	...	...	...	...	0·19	...	...	0·17	...	...	1·31	0·21	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·65	...	...	0·42	...	...
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·84	2·46	0·04	0·80	0·06
		Jamalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·53	...	...	...
		Netrokona	...	...	...	...	...	...	...	...	...	...	...	0·07	...	...	...	2·67	3·00	0·13	1·27	...
		Subornakhally	...	...	...	...	...	...	...	...	...	...	...	...	...	0·17	...	0·08	1·55	...	0·40	...
		Durgapore	...	...	...	...	...	...	...	...	...	...	...	0·96	...	...	...	1·20	...	...	...	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	1·95	...	0·31	0·77
		Dewanganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·63	...	0·18	0·18
NORTH BENGAL.	Pubna	Pubna	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	0·05	1·30	...	0·28	0·49	...
		Serajgunge	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	0·02	0·18	...	0·20	...
	Bogra	Sherpore	...	...	...	...	...	...	...	...	...	...	0·07	...	...	...	...	...	...	...	0·01	...
		Nowkhilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	0·30	...
		Bogra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Panchbibi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahye	Beauleah	...	...	...	...	...	...	...	...	0·02	...	0·03	...	...	...	0·11	...	...	...	...	...
		Nattore	...	...	...	...	...	...	...	...	...	...	0·13	...	...	...	1·15	...	...	...	...	...
		Naogaon	...	...	...	...	...	...	...	...	...	...	0·03	...	...	...	...	...	...	...	...	...
		Lalpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	1·12	...
		Manda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah	Maldah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chanchal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sibganj	...	...	...	...	...	...	...	...	...	0·32	...	...	...	...	...	...	...	...	...	...
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Churamon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raigunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinagepore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baloorghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·52	...	...	...	0·46
	Rungpore	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·64	...	...	...
		Rungpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20	...	0·62	2·00
		Kurigram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	1·30
		Bagdogra (*Nilphamari*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45	0·20	...	0·24	2·75
		Ulipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	...	0·62	0·95
	Julpigoree	Julpigoree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·95
		Alipore Doar	...	...	...	...	...	...	0·80	...	...	...	...	...	...	...	...	...	2·20	...	...	...
		Falacotta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·55	0,45	...	0·51
		Debiganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·40
		Bhogolpore (*Nagrakatta*).	...	...	...	...	...	...	0·48	...	...	...	...	...	...	...	...	0·08	...	0·20	...	1·15
	Cooch Behar	Dinhatta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	0·22	0·53
		Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	0·18	...	0·75
		Mickligunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·42
		Matabhanga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	0·12	0·03	0·35
	Darjeeling Hill	Buxa	...	...	...	...	...	...	0·70	...	...	...	...	...	...	...	0·05	0·08	...	...	0·13	0·13
		Siliguri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·19	...	...	0·17	1·17
		Darjeeling	...	...	...	...	...	...	0·12	...	...	...	0·18	0·06	...	...	0·19	0·8[illegible]	0·24	0·01	0·61	0·26
		Kalimpong	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	0·04	0·38	...	...	0·16	0·34
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·47	...	...	...	...
		Arrareah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Purneah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gonduara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matiari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliaganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·38	...	...	...	...
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soopool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Durbhunga	[illegible]ajpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durbhunga	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bahera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Roshera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore	Sitamarhi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hajipore	...	...	...	...	...	...	...	...	0·01	...	...	...	...	...	...	...	...	...	...	...
		Paru	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sauhar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumparun	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagaha	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burhurwa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sarun	Gopalgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sewan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in April 1889—*continued*.

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 30th April 1889.	Average rainfall from 1st January up to 30th April 1889.	Station.	District.	Meteorological division.
...	...	...	0·02	...	...	...	...	...	...	2	?	0·13	?	0·11	1·53	?	*Harishpore* ...	Noakholly—*concld*	EAST BENGAL—*concld*.
...	...	...	0·15	...	...	...	0·23	...	...	5	?	1·20	?	0·33	3·53	?	*Ramganj*.		
...	...	...	0·13	...	...	...	...	0·58	...	4	5·9	1·69	3·52	0·70	3·01	7·78	Madaripore ..	Furreedpore.	
...	...	...	...	...	...	0·12	0·02	...	0·52	8	6·6	3·31	4·03	1·40	4·99	8·32	Furreedpore.		
...	...	...	...	...	...	...	...	0·16	0·18	6	6·4	3·58	3·91	1·57	4·96	7·72	Goalundo.		
...	...	...	0·50	...	...	0·15	0·50	0·20	...	11	7·2	3·28	4·73	0·70	4·01	10·38	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	0·54	...	...	4	8·5	2·12	5·72	1·42	3·56	9·59	Dacca.		
...	...	...	0·36	...	...	0·35	0·79	0·41	...	9	6·0	2·83	4·73	0·79	4·19	9·31	Naraingunge.		
...	...	...	...	...	...	...	0·37	...	...	4	7·5	1·68	3·87	1·06	3·57	7·36	Manickgunge		
...	...	...	...	...	...	...	1·18	...	0·35	7	?	3·99	?	1·18	4·61	?	*Joydebpore*.		
1·10	...	...	2·30	...	...	...	1·55	...	...	5	6·2	7·27	5·39	2·30	8·21	11·86	Agartola ...	Hill Tipperah.	
...	...	...	2·13	...	...	0·24	0·60	0·80	...	10	7·2	6·33	6·52	2·13	7·59	10·99	Comilla ..	Tipperah.	
...	...	...	...	...	...	0·0[illegible]	...	...	...	4	5·4	0·90	4·30	0·38	3·52	9·02	Chandpore.		
...	...	...	2·82	...	...	0·02	0·70	...	...	9	6·9	6·59	5·14	2·82	8·07	11·61	Brahmunberia.		
...	...	...	1·47	...	...	...	0·32	0·18	...	9	?	3·32	?	1·47	4·02	?	*Ramchandrapore*.		
...	...	...	2·50	...	...	...	...	...	...	7	?	4·44	?	2·50	5·39	?	*Nasirnagar*.		
...	...	...	...	...	...	...	0·20	...	...	2	?	1·70	?	1·50	1·75	?	*Daudkandi*.		
...	...	...	1·23	0·47	...	0·10	0·80	0·33	...	9	?	5·94	?	1·50	6·75	?	*Kasba*.		
...	...	...	1·70	...	...	...	1·30	...	...	2	?	3·00	?	1·70	6·39	?	*Laksham*.		
...	...	0·24	1·80	...	...	...	1·45	...	1·21	9	7·6	7·86	5·14	1·80	8·76	9·38	Kishoregunge.	Mymensingh.	
...	...	...	...	...	...	...	0·39	...	...	3	5·9	1·46	3·40	0·65	2·74	6·33	Atia (*Tangail*)		
0·06	...	...	0·07	...	...	...	0·44	0·02	...	9	7·9	4·79	5·41	2·46	5·62	9·08	Mymensingh.		
...	...	...	...	...	...	0·21	0·18	...	...	3	5·8	0·92	3·13	0·53	3·25	6·05	Jamalpore.		
0·14	0·09	...	...	...	...	...	0·11	0·10	0·80	10	8·2	8·38	4·24	3·00	8·96	7·41	Netrokona.		
...	...	...	...	...	...	...	0·74	...	...	5	?	2·04	?	1·55	4·35	?	*Suborhakhally*		
2·00	...	...	...	...	...	...	...	1·87	...	6	?	6·03	?	2·00	8·13	?	*Durgapore*		
...	...	...	...	...	...	0·35	0·09	...	...	6	?	3·71	?	1·95	5·82	?	*Sherepore Town*		
...	...	...	...	...	...	...	0·01	...	...	4	?	2·00	?	1·63		?	*Dewanganj*.		
...	...	...	...	...	...	...	...	...	...	5	7·1	2·26	3·46	1·39	3·47	6·67	Pubna ...	Pubna ..	NORTH BENGAL.
...	...	...	...	...	...	...	0·36	...	...	5	4·8	0·94	2·68	0·36	3·26	5·44	Serajgunge.		
...	...	...	...	...	...	...	0·51	...	...	3	3·4	0·59	1·47	0·51	3·07	4·17	Sherpore	Bogra.	
...	...	...	...	...	...	...	0·64	...	...	3	4·5	1·34	1·94	0·64	3·98	4·37	Nowkhilla.		
...	...	...	...	...	...	...	...	...	...	Nil	4·8	Nil	3·17	Nil	2·46	5·44	Bogra.		
...	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·40	Nil	3·78	3·38	Panchbibi.		
...	...	...	...	...	...	...	...	...	...	3	3·8	0·16	1·69	0·11	3·01	4·10	Beauleah ..	Rajshahye	
...	...	...	...	...	...	...	...	...	...	2	3·0	1·28	2·13	1·15	4·33	4·59	Nattore.		
...	...	...	...	...	...	...	...	...	...	1	?	0·03	?	0·03	4·43	?	*Naogaon*.		
...	...	...	...	...	...	...	...	...	...	2	?	1·62	?	1·12	2·90	?	*Lalpore*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·20	?	*Manda*.		
...	...	...	...	...	...	...	...	...	...	Nil	2·7	Nil	1·31	Nil	4·19	3·59	Maldah ..	Maldah.	
...	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	0·93	Nil	2·86	2·65	Chanchal.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·54	?	*Gajol*.		
...	...	...	...	...	...	...	...	...	...	1	?	0·32	?	0·32	3·44	?	*Sibganj*.		
...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·99	Nil	3·80	2·77	Mohadebpore	Dinagepore.	
...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·63	Nil	4·82	2·16	Churamon.		
...	...	...	...	...	...	...	...	...	...	Nil	2·8	Nil	1·03	Nil	4·39	2·91	Raigunge.		
...	...	...	...	...	...	...	...	...	...	Nil	3·6	Nil	2·19	Nil	2·99	3·88	Dinagepore.		
...	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·95	Nil	3·46	2·44	Baloorghat		
...	...	...	...	...	...	...	...	...	...	2	?	0·98	?	0·52	4·22	?	*Thakurgaon*.		
...	...	...	...	...	...	...	0·35	...	...	2	4·4	1·89	2·69	1·64	5·29	5·05	Bhawanigunge (*Gyabanda*).	Rungpore	
...	...	...	...	...	...	...	...	0·11	...	4	5·4	2·93	3·07	2·00	7·01	5·10	Rungpore.		
0·20	...	...	...	...	...	...	...	1·00	...	4	5·8	3·20	4·68	1·60	6·42	7·46	Kurigram.		
...	...	...	...	...	...	...	...	...	...	4	4·7	3·64	3·45	2·75	7·17	5·74	Bagdogra. (*Nilphamari*)		
...	...	...	...	...	...	...	...	0·28	...	4	?	2·10	?	0·95	5·03	?	*Ulipore*.		
...	...	...	...	...	...	...	...	0·16	0·02	3	6·8	1·13	3·82	0·95	4·47	6·58	Julpigoree	Julpigoree.	
...	...	...	...	...	...	...	...	3·20	0·33	4	?	6·55	?	3·20	12·45	?	*Alipore Doar*		
0·02	...	...	...	...	...	...	0·07	0·38	...	6	?	4·58	?	2·55	7·53	?	*Falacotta*.		
...	...	...	...	...	...	...	...	...	...	1	?	1·40	?	1·40	5·34	?	*Debiganj*.		
...	0·07	...	...	...	...	...	...	0·66	...	6	?	2·73	?	1·15	8·24	?	*Bhogotpore* (*Nagrakatta*.)		
0·36	...	...	...	...	...	...	...	0·31	0·91	6	6·9	2·44	4·34	0·91	6·26	7·12	Dinhatta	Cooch Behar.	
...	...	...	...	...	...	...	...	0·45	0·75	5	8·2	2·25	5·28	0·75	7·57	8·07	Cooch Behar.		
...	...	...	...	...	...	...	...	...	0·45	2	6·0	1·87	4·57	1·44	6·34	6·70	Mickligunge.		
0·11	...	...	...	...	...	...	...	0·18	0·40	7	7·1	1·21	4·20	0·40	5·99	7·56	Matabhanga.		
0·18	0·57	0·05	...	...	...	0·07	0·09	0·15	0·70	12	12·4	2·90	8·61	0·70	14·09	14·00	Buxa	Darjeeling.	
...	0·10	0·05	0·45	...	...	...	...	...	0·11	7	6·5	2·24	3·68	1·17	7·38	6·07	Siliguri		
0·01	...	...	0·37	...	0·08	...	0·22	0·21	0·03	15	11·0	3·48	3·92	0·89	9·37	8·08	Darjeeling.		
...	...	...	0·50	...	0·45	0·10	0·12	...	...	9	9·0	2·59	2·99	0·50	8·67	6·76	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	1	3·1	0·47	1·70	0·47	2·05	3·54	Kissengunge	Purneah ...	NORTH BEHAR.
...	...	...	...	...	...	...	...	...	...	Nil	2·4	Nil	1·42	Nil	2·55	3·14	Arrareah.		
...	...	...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·33	Nil	2·96	2·82	Purneah.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·98	?	*Gondwara*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·65	?	*Balarampore*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·81	?	*Matiari*		
...	...	...	...	...	...	...	...	...	...	1	?	0·38	?	0·38	2·36	?	*Kaliaganj*.		
...	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·97	Nil	5·45	2·61	Maddapore	North Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·84	Nil	4·38	2·26	Soopool.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·36	?	*Protabganj*.		
...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·30	Nil	6·00	1·80	Tajpore	Durbhunga.	
...	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·63	Nil	4·00	2·04	Durbhunga.		
...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·00	Nil	3·60	2·64	Madhubani.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·51	?	*Bahera*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·23	?	*Roshera*.		
...	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·12	Nil	4·80	2·77	Sitamarhi	Mozufferpore.	
...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·50	Nil	5·15	2·48	Mozufferpore		
...	...	...	...	...	...	...	...	...	...	1	0·9	0·01	0·18	0·01	3·93	1·80	Hajipore.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·37	?	*Paru*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·20	?	*Mahua*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	15·12	?	*Suhar*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·40	?	*Pupri*.		
...	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·62	Nil	3·89	1·96	Motihari ...	Chumparun.	
...	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·71	Nil	3·96	2·31	Bettiah.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·22	?	*Bagaha*.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·51	?	*Burhurwa*.		
...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·22	Nil	5·34	1·73	Gopalgunge.	Sarun.	
...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·25	Nil	3·88	1·8	Sewan.		
...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·37	Nil	3·56	1·96	Chuprah.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhubooah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	0·07	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.	...		...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
	Patna	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr	Begooserai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gogri ...		...	...	...	...	...	...	...	...	...	...	...	...		...		...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	...		...	...	...	...	...	...	...	...		...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Godda ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour ...	...	...	...	...	...	...	...	...	0·04	0·45	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	...	...	...	...	...	...	...	0·16	...	0·41	0·02	...	...	...	...	...	...	...	...
		Deoghur	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jumtara ...	...	...	...	...	...	...	...	...	0·34	...	...	...	...	...		...	...	...	...	...
		Mohagama ..	...	...	...	...	...		...	...	...		...	...	...	...		...		...	...	...
		Nanihat ..	...	...		...	...	...	...	...	...	...	...	...	...			...	...	...		...
CHUTIA NAGPUR.	Hazaribagh .	Pachamba (Giridi).	...	...	...	...	...	...	...	...	0·34	0·01	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	...	0·33	0·07	0·02	...	...	...	...	...	...	...	...	...
		Semtagurah	...	...	...	...	...		...	...	0·45	0·43	0·23	...	...	...	...	...	...	...	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	0·47	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...
		Chatra .		...	...	...	...	...	...	...	0·15	0·03	...	...	...	...	...	...	...	...	...	...
		Karagdeha ...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramghar ...	...	...	...	...			...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	0·60	0·16	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	...	...	...	...	...	...	0·18	0·35	0·10	...	...	...	...	...	...	...	...	...
		Palamow ...	...	...	...	...	...	...	...	...	...	0·08	...	...	...	...	...	...	...	...	...	...
		Silli ...	...	...	...		...	...	...	...	...	0·40	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...
		Hoseinabad ..	...	...	...	...	...	...	...	...	...	0·23	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singbhoom ...	Chyebassa ..	...	...	...	...	...	...	...	...	0·68	...	0·42	...	0·09	...	...	...	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	...	...	0·47	...	0·38	...	...	...	...	...	...	...	...	...
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	0·94	...	...	...	...	...	...	...	...	...
		Baharagura...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	...	1·06	0·04	0·10	...	...	...	...	...	...	...	...	...
		Gobindpore ...	...	...	...	...	...	...	...	...	0·08	...	0·03	...	...	...	...	...	...	...	...	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	0·02	0·02	...	...	...	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	...	...	1·93	...	...	...	...	...	...	...	...	...
		Jhalda ...																				
		Chas ...																				

Bengal for the month of April 1889—*concluded.*

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 30th April 1889.	Average rainfall from 1st January up to 30th April 1889.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·16	Nil	2·59	1·59	Buxar ...	Shahabad ...	SOUTH BEHAR.
...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·11	Nil	2·65	1·77	Dehree.		
...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·18	Nil	2·05	1·88	Bhubooah.		
...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·16	Nil	2·38	1·50	Sasseram.		
...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·50	Nil	2·90	2·40	Arrah.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·81	?	*Mohaniah.*		
...	...	...	...	...	...	0·07	...	...	...	2	1·0	0·14	0·22	0·07	1·96	1·59	Arungabad ...	Gya.	
...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·30	Nil	4·65	2·04	Gya.		
...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·28	Nil	3·33	1·99	Nowadah.		
...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·15	Nil	3·83	1·75	Jehanabad.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·09	?	*Arwal.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·85	?	*Daudnagar.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·51	?	*Sheerghati.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·65	?	*Rajauli.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·85	?	*Pakri Barawan.*		
...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·26	Nil	3·89	1·83	Patna ...	Patna.	
...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·22	Nil	3·54	1·42	Dinapore.		
...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·21	Nil	4·57	1·91	Behar.		
...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·12	Nil	6·04	1·61	Barrh.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·05	?	*Bickram.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	4·35	?	*Hilsa.*		
...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·34	Nil	5·66	1·91	Begooserai ...	Monghyr.	
...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·44	Nil	3·32	2·01	Monghyr.		
...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·47	Nil	3·69	2·32	Jamui.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	6·17	?	*Gogri.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·55	?	*Sheikpura.*		
...	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·82	Nil	3·73	2·33	Bhagulpore ...	South Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·53	Nil	4·13	2·10	Banka.		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·46	?	*Kolgong.*		
...	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·69	Nil	3·16	2·09	Rajmehal ...	Sonthal Pergunnahs.	
...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·47	Nil	4·53	1·96	Godda.		
...	...	...	...	...	...	...	...	...	...	2	1·2	0·49	0·48	0·45	4·13	2·25	Pakour.		
...	...	...	...	...	...	...	...	...	...	3	3·1	0·59	1·03	0·41	3·94	3·05	Nya Doomka.		
...	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·76	Nil	2·11	2·52	Deoghur.		
...	...	...	...	...	...	...	...	...	...	1	2·0	0·34	0·59	0·34	2·42	2·32	Jamtara		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·87	?	*Mohagama.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·52	?	*Nanihat.*		
...	...	...	...	...	...	...	...	...	...	2	2·1	0·35	0·62	0·34	3·44	2·40	Pachamba ... (*Giridi*).	Hazaribagh ...	CHUTIA NAGPUR.
...	...	...	...	...	...	...	...	...	...	3	2·2	0·42	0·36	0·33	2·76	2·36	Hazaribagh.		
...	...	...	...	...	...	...	...	...	...	3	0·7	1·11	0·30	0·45	3·06	2·51	Semtagurah.		
...	...	...	...	...	...	...	...	...	...	1	0·8	0·47	0·10	0·47	2·03	2·25	Mahudi Hills.		
...	...	...	...	...	...	...	...	...	...	Nil	Nil	Nil	Nil	Nil	2·75	1·60	Jhoomrah Hills		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·84	?	*Barhi.*		
...	...	...	...	...	...	...	...	...	...	2	?	0·18	?	0·15	4·55	?	*Chatra.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	2·77	?	*Karagdeha.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Ramghar.*		
...	...	...	...	...	...	0·12	...	...	...	3	1·8	0·88	0·26	0·60	3·75	2·44	Lohardugga ...	Lohardugga.	
...	...	...	...	...	...	...	...	...	...	3	2·5	0·63	0·62	0·35	1·75	3·67	Ranchi.		
...	...	...	...	0·12	0·05	...	...	...	...	3	1·4	0·25	0·28	0·12	2·40	2·20	Palamow.		
...	...	...	...	...	...	...	...	...	...	1	?	0·40	?	0·40	1·20	?	*Silli.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Balumat.*		
...	...	...	...	...	...	0·60	...	...	...	2	?	0·83	?	0·60	2·91	?	*Hoseinabad.*		
...	...	...	...	0·10	0·10	...	...	...	...	2	?	0·20	?	0·10	1·60	?	*Garwah.*		
...	...	...	...	...	...	...	...	...	...	3	3·0	1·19	0·70	0·68	2·05	3·40	Chyebassa ...	Singbhoom.	
...	...	...	...	...	...	...	...	...	...	2	?	0·85	?	0·47	1·57	?	*Chakradharpore.*		
...	...	...	...	...	...	...	...	...	...	1	?	0·94	?	0·94	1·74	?	*Ghatsila.*		
...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	3·77	?	*Baharagura.*		
...	...	...	...	...	...	...	...	...	...	3	3·7	1·20	0·83	1·06	2·94	3·06	Purulia ..	Manbhoom.	
...	...	...	...	...	...	...	...	...	...	2	1·9	0·11	0·60	0·08	1·93	2·48	Gobindpore.		
...	...	...	...	...	...	...	...	...	...	2	?	0·04	?	0·02	3·07	?	*Raghunathpore.*		
...	...	...	...	...	...	...	...		...	1	?	1·93	?	1·93	3·01	?	*Barrabhoom.*		
																	Jhalda.		
																	Chas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF APRIL 1889.

The month of April in Bengal is noticeable as being almost the hottest of the whole year, and it is usually characterised by steadily increasing temperature, with decreasing pressure, the decreasing pressure being brought about by a series of oscillations, in which the downward movement is greater than the upward. Hot weather storms or nor'-westers are generally rather frequent in this month. For some days before they occur the barometer falls streadily, and sometimes largely in Bengal, and probably over Northern India. The moist and fairly cool southerly or sea winds blowing across the Bengal and Orissa coasts also increase in force. At the same time hot dry westerly and north-westerly winds blow steadily from Central India over a considerable part of the west and centre of the province, while moist easterly winds also blow down the Assam Valley. Bengal thus becomes a focus towards which these three wind systems, opposed in character and direction, converge, and it is apparently by their interaction that the usual hot weather storms are formed. At such periods pressure oscillates rather rapidly, and the changes at neighbouring stations are unequal, showing that the atmosphere is in a disturbed state, and more or less numerous thunderstorms with rain occur. Each storm is generally confined to a narrow area, and its existence is brief, and so far as is known they do not travel, as violent storms, more than about 30 or 40 miles. These storms form the only source of rain in Bengal during April. The rainfall brought by these storms is therefore very irregularly distributed; but, roughly speaking, the falls are greatest in the districts of East and North Bengal bordering on the Himalayas, and in the Assam and Arakan Hills, while the rainfall is least in the western districts generally, and in Behar and Central Bengal. Thus the normal rainfall in East and North Bengal varies from about two and-a-half to three and-a-half inches; in South-West Bengal it is about two inches; in Orissa rather more than an inch; while in Behar and Chutia Nagpur it equals about half an inch.

Meteorology of the month.—Conditions have been somewhat abnormal during almost the whole month, the peculiarities being the defective rainfall and constant high temperature. From week to week temperature has continued high, the only case of normal temperature occurring in one or two districts towards the middle of the month Pressure was in defect on the 7th and 8th, again on the occasion of a small depression on the 20th and 21st, and during the last few days of the month. In the early part of the month weather was fairly normal, temperature and pressure were in excess, and strong winds were blowing on the coast. This continued till the end of the first week, when pressure fell, and local storms with rain became general over almost the whole province; the exception being Behar, where scarcely any rain fell. Normal weather began again on the 13th, but it lasted for two days only. From the 15th up till the 19th storms occurred every day in East Bengal, North Bengal, and in some parts of South-West Bengal and Orissa. Even in these districts, where light rain was falling every day, the normal amount for the week was not received. The storms were generally unimportant and not of any great violence, but in the Rajshahye district on the 15th one of these local storms developed to such an extent as to become of almost tornado violence. Pressure changes during that period were small, but the winds were somewhat abnormal, directions being very variable during the three days from the 14th to the 16th, and the easterly element strongly predominating. On the 20th and 21st there was a rapid fall of pressure, giving a small low-pressure area over Bengal. The rapid rise that followed gave abnormally high pressure over part of the province, and local storms occurred in East and North Bengal. These storms were caused by a north-westerly wind setting in on the 24th, the south-west wind which had been previously blowing diminishing greatly in force on the rapid rise of pressure which began on the 23rd. Temperature kept on increasing, and the excess became large towards the end of the month. East Bengal again received local showers for a day or two about the 28th, and though some showers fell elsewhere, the amount of rain was very small. There have therefore been four periods of disturbed weather during the month, chiefly confined to East and North Bengal, and between these periods high pressure and temperature have everywhere obtained, more especially towards the end of the month.

Pressure.—Pressure changes have been generally unimportant, the only cases of rapid falls occurring at the beginning of the periods of disturbed conditions, four of which have been noticed above. During the first week of the month, pressure was about 0·05 inch above the normal, and changes were those characteristic of the hot weather. On the 7th and 8th a rapid fall occurred but the excess was quickly restored, and during the following week increased to more than a tenth of an inch. On the 16th and 17th pressure again fell below the normal. The most rapid changes of the month commenced on the 20th, when a fall of about a tenth of an inch was uniform over nearly the whole province. It continued a little less rapidly the following day, and the pressure became nearly two-tenths in defect. On the 23rd and 24th the rapid rise of between two and three-tenths of an inch brought pressure again considerably in excess After that a fall set in which continued till the 29th. During the last few days of the month pressure was considerably in defect. For the whole month pressure was very nearly normal in South-West Bengal and Orissa. In other districts there was a slight excess of about two hundredths of an inch. The monthly mean pressure for Assam differs very little from the normal.

Temperature.—One of the most pronounced features of the month's meteorology has, as stated above, been the very high temperature which continued through the whole month. Large local falls took place after storms, but notwithstanding these the mean temperature for the different districts was generally in excess. During the first week the excess was one to two degrees, and it increased during the second week. but temperature afterwards became very nearly normal. The most important changes were those which set in during the last part of the month when temperature became everywhere high, and the excess amounted in some cases to over 8°. Maximum temperature has been frequently over 100°, and at Burdwan, Cuttack, and Balasore has been over 110°. The mean for the month is over 2° in excess in all districts except Orissa, Chutia Nagpur, and Assam, where the excess is between 1·5° and 2°.

In the table below are given the variations of the actual maximum. minimum, and mean temperatures from the normal for each week of the month at nine typical stations in different districts of the province, and the figures will show clearly how largely temperature has been in excess, and also the general variations of the temperature from the normal :—

Stations.	Week ending 5th April 1889.			Week ending 12th April 1889.			Week ending 19th April 1889.			Week ending 26th April 1889.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack	+0·1	−0·2	−0·1	+0·8	+0·6	+0·8	−1·0	−2·4	+0 7	+3 0	+3·4	+3 2
Calcutta	−0·4	−0·4	−0·4	+0·7	−1·0	−0·5	−2·2	−2·1	−0 1	+3 6	+2·8	+3 2
Dacca	+3 6	−0·1	+1·7	+5 5	+0·8	+3 1	+0·9	+0·1	+0·0	+4·2	+4 7	+4·5
Burdwan	0	−0 5?	−0 3?	+1 2	−1·0	+0·1	+0 5	+2·9	+1 7	+6 5	+3·5	+5·0
Patna	+2·8	+0·3	+1·3	+1·6	+1·8	+1·8	+1·2	+0·6	+1·0	+0·8	+4 5	+2·6
Gya	0	+1 5	+0 7	+1·0	+2·0	+1 5	+0·6	+0·1	+0·4	+0 4	+3·9	+2 1
Purneah	−0·5	−3·5	−1 9	+4·0	+1·3	+2·7	−0·2	+2 9	+1 3	−0·3	+4·3	+2·0
Hazaribagh	−0·5	+2·5	+1·0	+0 1	+1·0	+1·0	−1·7	+1·6	+1 6	+1 4	+5 2	+3·2
Darjeeling	+1·9	−1·2	+0·3	+4·8	+4·2	+4 6	−5 5	−2 0	−4 2	?	+6 3	?

Rainfall.—The number of rainy days and the quantity of rain which has fallen during April have both been defective, especially the latter. East Bengal is the only district that has received nearly its normal amount of rainfall. In South-West and North Bengal the rainfall amounts to about half the normal. Behar has been practically rainless As stated above, there have been four periods during which local storms have occurred, but it was only between the 9th and 12th that they were at all general over the province At other times rain was confined almost entirely to East Bengal, North Bengal, and part of South West Bengal. In East Bengal 3 24 inches fell, in North and South-West Bengal a little over an inch, in Orissa and Chutia Nagpur about half an inch, and in Behar only three or four hundredths of an inch.

Heavy rain fell in Assam—in Sibsagor over 8 inches and in Silchar over 13 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of April 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month	Of month.			Rainy days.			Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month	Variation.	Average.	Normal average.
Orissa	112·4	64·7	93·6	78·8	86·2	+1·8	0 55	1·34	−0·79	1·0	2·7	−1·7	52·38	57 61
South-West Bengal	115·4	63·8	101·2	77·3	89·3	+2·3	1·23	2·00	−0·77	2·6	3·9	−1·3	58 38	56 78
East Bengal	104·0	65·4	93·6	75·0	84·3	+2·3	3·24	3·78	−0·54	5·6	6·2	−0 6	75·66	83·18
North Bengal	107·3	56·9	97·7	71·2	84·5	+2·1	1·13	2·44	−1·31	2·4	4·4	−2·0	57·79	74 29
North Behar	109·7	54·9	99·2	72·6	85·2	+2·4	0·03	0·71	−0·68	0·1	1·6	−1·5	45·73	50·04
South Behar	111·4	65·7	102·3	75·4	88·9	+2·4	0·06	0·42	−0·36	0·3	1·3	−1·0	51·73	45·37
Chutia Nagpur	100·0*	65·9*	97·7*	74·3*	86·0*	+1·7*	0·60	0·46	+0·14	2·4	1·8	+0·6	52·79	51·55
Assam	99·0	59·6	88·1	69·7	78·9	+1·5								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL,
The 14th May 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	29·817	29·829	—	SW	353·0	88·7	4th May	76·6	9th May	88·0	78·1	83·1	—	81·1
		Gopalpore .	29·797	29·847	+·080	SSW	665·0	87·2	5th „	79·3	9th & 10th May.	86·5	80·1	83·3	+0·4	82·8
		False Point ..	29·807	29·837	+·044	SSW	411·0	100·9	10th „	80·2	7th to 10th May.	91·7	80·6	86·2	+0·9	85·7
	Cuttack	Cuttack ..	29·744	29·821	+·049	SSW	218·0	108·9	5th „	80·4	10th „	104·5	81·8	93·2	+3·6	87·8
	Balasore	Balasore .	29·750	29·809	+·001	SW	331·0	104·5	8th & 9th May.	64·7?	4th „	102 2	78·6	90·4	+6·3	86·5
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·806	29·832	+·037	S SSW	727	94·7	5th „	83·0	10th „	93 5	83·8	88·7	+4·3	86·3
	Midnapore	Midnapore .	29 638	29·788	—·015	S	217·4	112·4	5th „	79·0	9th „	108·4	80·7	94·6	+9·2	87·2
	24-Pergunnahs ... ..., Howrah ... ..., Hooghly	Calcutta	29·778	29·799	+·013	SSW	271	101·9	5th „	80 2	7th, 8th 9th May	96 1	81·2	88·7	+5·5	86·4
	Burdwan	Burdwan	29·668	29·707	—·013	S	159·2	110·2	5th „	78·9	7th „	107 6	81 2	94·3	+8·9	87·6
	Bankoora	Bankoora ...	29·441	29·738	—	S	151	112·6	9th „	79·5	6th „	111 5	81 4	96 4	—	88·5
	Beerbhoom ... .., West Burdwan	Raneegunge ..	29·442	29·740	—·020	SSW	94·6	114·5	10th „	70·8	6th „	111·5	81·7	96·6	+10·6	89·3
	Moorshedabad	Berhampore	29·697	29·764	—·024	S	185·7	109·7	5th & 10th May.	79·3	8th „	107 4	80·6	93·9	+8·6	86·0
	Nuddea	Krishnaghur.	29 740	29·806	+·013	S	273·0	109 8	5th „	79·7	7th & 8th May	104 0	81·1	92·6	+8·9	87·1
	Jessore ... ..., Khoolna	Jessore ..	29·771	29·804	+·003	SSE	139·7	107·8	5th „	76·4	9th „	101 6	81·0	91·3	+7·3	87·3
East Bengal.	Chittagong	Chittagong .	29·814	29·904	+·048	SE & S	154·9	90·1	4th, 9th, 10th May.	70·0	4th „	89 1	77 4	83·3	+2·3	83·8
	Chittagong Hill Tracts	Demagiri ..						Observations not received.								
	Backergunge	Barrisal ..	29·853	29·865	+ 029	S	244·4	94 3	5th May	78·8	9th „	93·3	80·6	86·9	+5·6	86 2
	Noakholly	Noakholly ..	29·820	29·869	—	SSW	240·9	92·0	7th & 8th May.	70·8	4th „	91·6	79·1	85·4	—	87·6
	Furreedpore	Furreedpore...														
	Dacca	Dacca ..	29·810	29·832	+·010	S	209·9	97·2	10th „	68·2	4th „	95 1	75·2	85·2	+3·4	84·6
	Commillah	Commillah ..	29·839	29 875	+·032	S	194·7	92 8	5th „	70·8	4th „	92·3	77·3	84·8	+3 6	83·6
	Mymensingh	Mymensingh .	29·778	29·837	—·019	ESE	265·1	94 3	4th, 10th May.	71·6	4th & 8th May.	91 7	73 5	82·6	+3·1	78·3
North Bengal.	Bogra	Bogra	29·724	29·787	—·015	South-Westerly	101·2	105·8	4th „	73·8	4th „	100 5	76 2	88 3	+4·2	82 8
	Pubna	Serajgunge ..	29·758	29 800	—·021	SSE	166·7	98·6	4th & 5th May.	72 7	4th „	96 7	75·4	86·1	+5·6	81·5
	Rajshahye	Rampore Beauleah.	29·703	29·773	+·031	Southerly	193·6	107·8	5th „	75·1	7th „	103 3	79 3	91·3	+10 4	85·2
	Maldah . .	Maldah ..	29·689	29·770	—	SE	65·1	109·7	4th „	76·5	7th „	107 7	79 0	93 3?	—	86·3
	Dinagepore	Dinagepore .	29 674	29·795	—·026	ENE	198	105·0	4th „	74·6	7th „	98 7	76·2	87 5	+6·1	80·3
	Rungpore	Rungpore	29·713	29·840	—·002	SSE	208	102·3	4th „	72 5	6th „	94·4	73 7	84·1	+4·0	77·1
	Julpigoree .. ..., Cooch Behar	Julpigoree ...	29·539	29 830	—·022	E	183·2	95·0	4th „	68 8	4th, 6th, 7th, 9th May.	89 6	69·7	79·7	+2·0	77·3
	Darjeeling Hill Tracts ..	Darjeeling ..	23·001	—	+·038	WSW	293·0	66·1	9th „	47·1	4th „	65 0	52·2	58·6	+4·0	59·4
North Behar.	Purneah ... .., North Bhagulpore ...	Purneah ..	29 600	29 787	—·003	ENE	103·0	107·3	5th „	73·9	4th „	102 6	76 8	89·7	+7·9	84·0
	Mozufferpore	Mozufferpore						Observations not taken.								
	Durbhunga	Durbhunga ...	29·598	29·766	—·009	ESE	155	102·9	4th May	78·3	7th „	100 8	80·3	90 6	+7·1	85·1
	Chumparun	Motihari ...	29·554	29·763	+·005	E	199·0	106·8	10th „	68·8?	4th „	103·2	73 7	88·5	+5·4	74·1
	Sarun	Chupra ..	29·545	29·738	—·040	E		111·2	10th „	70 7	6th „	108·3	76·5	92·4	+6·4	89 8
South Behar.	Shahabad	Dehree ..	29·383	29·731	—·028	SW	175·3	114·5	10th „	78·0	7th „	112·0	81·1	96·6	+7·1	91·5
		Buxar ..	29·492	29·733	—·032	ENE	151·8	111·4	10th „	74·3	5th „	108·5	78 4	93·5	+6·0	88·8
		Arrah ...	29·557	29·753	—·015	Calm	90·3	111·4	10th „	71·7	5th „	109·1	76 7	92 9	+5 4	88·2
	Gya	Gya	29·376	29·749	+·010	Calm	126·2	113·6	10th „	73·3	6th „	111 5	81 2	96 3	+6·3	92·0
	Patna	Bankipore ...	29·560	29·743	—·016	ENE	112·6	111·6	10th „	76·2	7th „	109·0	78 2	93·6	+6·9	87·1
	South Bhagulpore ., Monghyr	Bhagulpore ...	29·580	29·742	—·042	E	90·4	107·3	4th „	74·0	4th „	103 6	77 3	90·5	+6·2	84·8
	Sontha Pergunnahs ...	Doomka ...	29·259	29·750	—	SW	135·1	113·0	10th „	78 7	4th „	108·6	81·0	94·9	—	90·3
Chota Nagpore.	Hazaribagh	Hazaribagh ...	27·791	29·744	+ 034	SW	237·3	109·3	10th „	76·0	4th „	106 3	79·5	92 9	+8·2	92·7
	Lohardugga ... ..., Manbhoom	Ranchee ...	27 683	29·751	+·012	W	144·9	106·5	8th „	73·4	7th „	105·2	79·0	92·1	+8·7	91·6
	Singbhoom	Chyebassa ...	29·018	29·764	—	SSW	70·7	113·2	10th „	79·2	6th „	111 5	82·5	97·0	—	91·5
Assam.	......	Sibsagar ...	29·562	29·905	+·029	NE & SE		85·6	8th „	65·3	5th „	79·9	69·8	74·8	—1·6	71·8
	.... .	Dhubri ...	29·723	29·842	+·002	ENE	280·9	94·8	4th „	66·9	4th „	86·2	71 5	78·8	+1·0	78·9
	......	Silchar ...	29 802	29·910	+·046	ENE	85·1	92·5	10th „	67·9	4th „	85 9	71·5	78·7	+0·6	78·2

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 10th of May 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1888. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
90	0·4	—	Nil	0·80	Nil	0 87	—0·87	44·98	59·20	—14·22	0·0	1·5	Pooree ...		Orissa.
84	0·4	0 03											Gopalpore ...	Pooree	
86	4·0	—											False Point ...		
69	1·7	—	0·07	0·90	0·10	1·01	—0·91	53·68	56·01	—2·33	0 2	1·6	Cuttack ..	Cuttack	
73	1·0	0·88	0·10	1·18	0·23	1·54	—1·31	55·66	58 89	—3·23	0·3	2·2	Balasore ..	Balasore	
80	6·9	Nil	Nil	1·45	Nil	1·71	—1·71	57·17	68·46	— 11·29	0 0	2 3	Saugor Island ..	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
70	1·1	0·18	0·05	1·52	0·16	1 99	—1·83	66·50	57 80	+8 70	0 3	2·2	Midnapore .	Midnapore	
73	1·0	—	Nil	1·58	0·01	2 15	—2 14	66 27	58 45	+7·82	0·0	2·5	Calcutta* ...	24-Pergunnahs ... .. Howrah .. .. Hooghly .	
66	0·7	—	Nil	1 06	Nil	1 71	—1·71	57·84	52 98	+4 86	0·0	2 0	Burdwan ..	Burdwan	
62	0·9	—	Nil	0·93	Nil	1 24	—1 24	55·19	56 53	—1·34	0·0	2 0	Bankoora ...	Bankoora	
56	0·0	—	Nil	0·77	Nil	0 97	—0·97	59·77	55 42	+4·35	0 0	1·7	Raneegunge ...	Beerbhoom ... ... West Burdwan ...	
73	2·9	—	0 23	1·28	0 23	1·62	—1·39	50 82	55·23	—4·41	0 7	2·0	Berhampore ..	Moorshedabad	
70	3 3	—	0 46	1 42	0·52	1 95	—1 43	58 83	56 78	+2 05	0·8	2·2	Krishnaghur ..	Nuddea	
77	4·6	0·08	0·22	1·75	0 22	2·44	—2 22	48 39	62 31	— 13 92	0 8	2·6	Jessore ...	Jessore ... ... Khoolna .. .	
83	4·3	2·61	3 70	2 20	3 92	3·09	+0·83	132·70	122·57	+10·13	2 0	2·9	Chittagong ...	Chittagong	East Bengal.
			1 87	2 83	2 40	3·84	—1·44	79·49	92 08	—13 19	1·5	3·7	Demagiri ...	Chittagong Hill Tracts	
78	4·3	Nil	Nil	1 94	0 04	2 61	- 2 57	76·20	85·85	—9 65	0 0	3·3	Barrisal ...	Backergunge ...	
71	5 4	Nil	0·87	2 55	0·92	3 57	—2·65	114 55	119 83	—5·28	2 0	3·0	Noakholly	Noakholly	
			0 81	2·30	1 80	3 09	—1 29	53·34	66 77	—13 43	1 7	3·0	Furreedpore ...	Furreedpore	
81	5·1	1 91	2 12	2·53	2 60	3 20	—0·60	61·85	72·00	—10·15	3 5	3 3	Dacca ...	Dacca	
83	3 3	1 80	1·77	2·67	2·03	3·86	—1 83	70 80	83 34	—12 54	2 3	3·0	Commillah ..	Tipperah	
84	7·3	0 30	0·48	2 22	1 71	3·31	—1 60	73·92	77·66	—3 74	1 2	2 8	Mymensingh .	Mymensingh	
75	8 1	Nil	0 20	1 77	0·47	2 37	—1 90	47·32	63·31	—15 99	0 8	2 7	Bogra ..	Bogra	North Bengal.
84	0·9	0·79	1·96	1 59	2·11	2·29	—0 18	46 20	61·21	—15 01	2 5	4·5	Serajgunge ..	Pubna	
75	2 7	1 07	0 60	1 58	0·60	2·14	—1 54	49 26	59 55	—10 29	1 0	2·5	Rampore Beauleah	Rajshahye . ..	
76	1 7	—	Nil	0·78	Nil	1 13	—1·13	43 85	57 49	—13 64	0·0	2 0	Maldah ..	Maldah	
74	7 0	—	Nil	0·91	Nil	1 44	—1 44	49·52	61 20	—11 68	0 0	2 0	Dinagepore ..	Dinagepore	
81	6·4	0 04	0 33	2 03	0 33	2 87	—2 54	62·67	82 14	—19 47	1 0	2·8	Rungpore ...	Rungpore	
83	4·7	1 07	1·70	2 57	1·70	3·41	—1·71	93 82	121·35	—27 53	3 4	3 5	Julpigoree ...	Julpigoree ... .. Cooch Behar	
90	6·3	0·71	1 44	1 91	1 82	2·60	—0·78	100 76	131 69	—21 93	3 8	3 4	Darjeeling	Darjeeling Hill Tracts	
70	2·1	Nil	Nil	0·90	Nil	1·34	—1 34	51·39	62 54	—11 15	0 0	1 5	Purneah .	Purneah . . North Bhagulpore	North Behar.
			Nil	0·50	Nil	0·62	—0·62	44 41	45 71	—1·70	0 0	1·0	Mozufferpore .	Mozufferpore	
66	0	Nil	Nil	0 55	Nil	0·66	—0·66	43 20	46 78	—3 58	0 0	1 2	Durbhunga ...	Durbhunga	
56	2·1	Nil	Nil	0 53	Nil	0 85	—0·85	44·81	40 21	— 4 40	0·0	1·2	Motihari	Chumparun	
46	0	Nil	Nil	0·42	Nil	0 72	—0·72	41 68	44·60	—2 92	0 0	1 0	Chupra	Sarun	
42	0	Nil											Dehree ..		South Behar.
32	0·3	Nil	Nil	0·25	Nil	0·32	—0 32	44 42	41 30	+3·12	0 0	0·7	Buxar ..	Shahabad	
44	·0	Nil											Arrah		
66	1·0	Nil	Nil	0·24	Nil	0·30	—0·30	52 91	43 03	+9·88	0 0	0 7	Gya	Gya	
55	0	Nil	Nil	0·33	Nil	0·49	—0 49	51·21	42 75	+8 46	0 0	0 8	Bankipore .	Patna	
69	1·4	Nil	Nil	0·30	Nil	0 53	—0·53	52 38	45 15	+7·23	0 0	0·8	Bhagulpore ..	South Bhagulpore ... Monghyr .. .	
54	0	—	0 04	0 73	0·04	0 93	—0·89	55 66	53·52	+2·14	0 3	1·6	Doomka	Sonthal Pergunnahs...	
16	0	Nil	Nil	0 73	Nil	0 79	—0·79	59 06	52 94	+6 12	0 0	1 4	Hazaribagh ..	Hazaribagh . .	Chota Nagpore.
27	0 9	Nil	Nil	0·38	Nil	0 41	—0 41	52 59	51 29	+1 60	0 0	1 3	Ranchi ..	Lohardugga	
			Nil	0·59	Nil	0·67	—0·67	48 80	50 08	—1 28	0 0	1 8		Maunbhoom	
46	0	Nil	Nil	0·82	Nil	1 05	—1·05	42·19	55 50	—12 81	0 0	2 3	Chyebassa ...	Singbhoom . .	
98	10·0	10 96											Sibsagar		Assam.
87	8·4	0 71											Dhubri	... ..	
89	7·0	6·52											Silchar	... ..	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
are. The means of the district are the numerical average of he rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 10th of May 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 4th May 1889.	Sunday, 5th May.	Monday, 6th May.	Tuesday, 7th May.	Wednesday, 8th May.	Thursday, 9th May.	Friday, 10th May.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·55	41·24	53·78
		Khurdah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·94	44·67	59·53
		Banpur ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·03	37·00	53·97
		False Point ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·95	56·96	69·78
		Gop ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·26	58·64	50·42
		Banki ...	...	...	...	...	...	...	...	Nil	Nil	0·15	0·41	45·20	53·80
		Cuttack ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·03	53·87	60·68
		Kendrapara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·24	47·32	57·30
		Jajpore ...	...	0·36	...	...	...	...	...	1	0·36	0·36	1·13	63·34	59·38
		Dharmsala ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·98	?
		Salipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·39	?
	Balasore ...	Chandbali ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·08	53·95	57·41
		Bhuddruck ...	...	...	...	...	...	...	...	Nil	Nil	0·28	1·27	51·28	57·60
		Sorah ...	...	...	...	...	0·05	...	...	1	0·05	0·05	1·51	53·21	56·88
		Balasore ...	...	0·56	...	...	...	...	...	1	0·56	1·04	1·43	60·24	64·40
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·14	57·02	57·41
		Baripodah ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·83	57·88	58·97
SOUTH-WEST BENGAL.	Midnapore ...	Contai .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·69	52·64	66·80
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	1·50	53·60	72·43
		Tumlook ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·55	67·90	57·35
		Midnapore ...	...	...	...	...	0·15	...	...	1	0·15	0·15	2·33	71·77	55·06
		Ghuttal ...	...	...	...	...	...	...	...	Nil	Nil	0·30	2·09	59·83	60·90
		Kukrahaty .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	68·60	?
		Heria .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·10	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·18	?
		Garbetta .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·89	?
	24-Pergunnahs	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	Nil	1·95	60·27	65·89
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·64	?
		Alipore Jail .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·92	68·43	62·13
		Barrackpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	2·24	64·32	55·15
		Dum-Dum .	...	...	...	...	...	...	...	Nil	Nil	Nil	2·00	68·28	58·30
		Baraset	...	...	...	...	...	...	...	Nil	Nil	0·08	2·33	68·32	56·34
		Buseerhat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·19	53·95	61·93
	Howrah ...	Howrah	...	...	...	...	...	...	...	Nil	Nil	Nil	1·89	70·51	58·64
		Mohesreka (*Ooloberiah.*)	...	...	...	...	...	...	...	Nil	Nil	Nil	2·46	64·41	58·39
	Hooghly ...	Serampore ...	...	...	...	...	...	...	...	Nil	Nil	0·03	2·20	69·83	56·79
		Hooghly ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·58	69·81	55·15
		Johanabad .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·74	64·89	61·16
	Burdwan ...	Culna .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·88	62·72	50·92
		Burdwan ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·58	48·73	54·08
		Cutwa ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·68	62·05	53·62
		Raneegunge ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·77	59·43	52·35
		Mankur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45·22	?
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·11	51·50	56·01
		Bishenpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·73	58·38	56·92
		Maliara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·07	52·35	55·17
		Khatra .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·04	58·47	57·76
		Indas ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43·89	?
		Kotalpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51·38	?
		Anoa	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39·76	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58·51	?
		Raipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57·21	?
		Sonamukhi ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·45	?
	Beerbhoom	Bh. Soory ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·94	56·10	57·35
		Hetampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·98	49·94	57·75
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	Nil	1·19	73·58	55·65
		Bolpore .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·40	?
		Murarai .	...	...	...	...	...	0·20	...	1	0·20	0·20	?	?	?
	Nuddea ...	Ranaghat .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·60	66·07	54·14
		Kishnaghur ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·95	70·88	52·67
		Choodanga .	...	...	...	...	...	0·65	...	1	0·65	0·65	2·23	56·32	59·12
		Meherpore ...	...	...	...	...	...	0·60	...	1	0·60	0·60	1·89	61·12	55·53
		Kooshtea .	...	...	...	0·58	...	0·46	...	2	1·04	1·35	2·10	39·70	62·48
	Khoolna	Satkhira .	...	...	...	...	...	...	...	Nil	Nil	Nil	2·41	42·32	63·90
		Bagirhat ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·80	55·47	70·71
		Khoolna ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·75	52·57	64·11
	Jessore .	Narail ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·50	35·27	54·98
		Jessore ...	...	...	...	...	...	0·08	...	1	0·08	0·08	2·08	60·91	64·53
		Jhenidah ..	...	...	0·12	...	...	0·67	...	2	0·79	0·79	2·15	40·48	62·36
		Magoorah ...	...	...	0·22	...	...	0·34	...	3	0·90	0·90	2·58	48·31	58·38
		Bongong ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·61	51·74	58·94
	Moorshedabad	Kandi .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·35	53·50	54·90
		Berhampore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·89	43·62	56·87
		Lalbag. .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·98	49·19	55·08
		Azimgunge ...	...	...	...	...	0·56	...	...	1	0·56	0·56	1·48	?	55·60
		Jungipore .	...	...	...	0·17	0·22	...	...	2	0·39	0·39	1·37	51·37	52·95
		Jaigola ...	...	...	...	0·45	...	...	...	1	0·45	0·45	1·67	55·29	55·72
		Jiaganje ...	...	...	...	...	0·62	...	...	1	0·62	0·62	?	50·71	?
		Akriganj ...	...	...	...	0·10	...	...	...	1	0·10	0·10	?	50·18	?
		Panchberia ...	...	...	...	...	0·80	...	...	1	0·80	0·80	?	45·59	?
EAST BENGAL	Chittagong ..	Cox's Bazar ..	4·73	...	...	...	...	...	...	1	4·73	4·80	2·93	152·30	141·47
		Chittagong ...	2·62	0·03	0·01	...	...	...	...	3	2·66	3·03	3·24	113·08	103·74
		Kutubdia ...	0·26										?	?	?
		Satkania ...	1·84	0·10	...	...	...	...	...	2	1·94	2·16	?	95·12	?
	Chittagong Hill Tracts.	Rangamati ...	1·64	...	...	...	...	...	...	1	1·64	2·00	3·67	83·19	94·91
		Ruma ..	0·90	1·20	...	...	...	...	...	2	2·10	2·80	4·00	75·77	89·41
	Backergunge	[illegible]	...	...	...	...	...	...	...	Nil	Nil	Nil	2·61	89·84	95·97
		[illegible]	...	...	...	...	...	...	...	Nil	Nil	Nil	2·69	65·66	78·23
		[illegible]	...	...	...	...	...	...	...	Nil	Nil	0·04	2·66	70·02	77·41
		Bhola ...	...	...	...	...	...	...	...	Nil	Nil	0·11	2·47	79·25	90·59

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 10th of May 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 4th May.	Sunday, 5th May.	Monday, 6th May.	Tuesday, 7th May.	Wednesday, 8th May.	Thursday, 9th May.	Friday, 10th May.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·65	?
		Bauphal ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	101·20	?
	Noakholly ..	Noakholly ..	0·23	...	0·16	...	...	...	...	2	0·39	0·39	3·00	113·11	119·45
		Fenny ..	1·20	...	0·15	...	...	...	...	2	1·35	1·45	4·05	115·95	120·13
		Harishpore ...	0·40	...	...	...	...	...	...	1	0·40	0·40	?	132·25	?
		Ramganj ..	0·44	...	0·41	...	0·07	...	...	3	0·92	0·97	?	92·78	
	Furreedpore	Madaripore ...	...	...	0·16	...	...	...	...	1	0·16	0·44	3·68	40·16	66·83
		Furreedpore...	...	...	0·40	...	...	0·05	...	2	0·45	1·65	2·75	58·05	67·10
		Goalundo ..	...	...	1·55	...	...	0·28	...	2	1·83	3·93	2·85	52·87	63·16
	Dacca ...	Munshigunge	1·29	...	...	0·83	...	0·20	...	3	2·32	2·32	3·10	67·37	83·47
		Dacca .	1·43	...	0·07	0·32	...	0·26	...	4	2·08	3·51	3·11	59·43	70·27
		Narainkunge	1·66	...	0·04	1·19	...	0·11	...	4	3·00	3·00	3·19	69·79	74·81
		Manickgunge	...	...	0·85	0·04	...	0·18	...	3	1·07	1·55	3·31	49·86	60·36
		Joydebpore ..	0·01	...	2·80	1·35	...	0·33	...	4	4·40	5·70	?	69·19	
	Hill Tipperah	Agartola ...	1·62	...	0·60	...	...	...	...	2	2·22	2·22	4·01	63·91	76·38
	Tipperah ..	Comilla ...	1·75	...	...	...	...	0·05	...	2	1·80	1·85	3·52	78·35	89·39
		Chandpore ..	0·80	...	...	0·30	...	...	...	2	1·10	1·10	4·15	61·17	91·14
		Brahmunberia	1·72	...	0·18	...	...	0·05	...	3	1·95	2·92	3·75	79·76	75·98
		Ramchandra-pore.	0·77	...	0·46	0·06	...	0·18	...	4	1·47	1·47	?	65·65	
		Nasirnagar...	...	...	2·30	...	...	...	...	1	2·30	3·80	?	67·53	?
		Daudkandi	1·85	...	0·30	0·50	...	...	...	3	2·65	2·05	?	69·03	?
		Kasba ...	1·37	...	0·90	...	...	...	...	2	2·27	2·27	?	65·30	?
		Laksham ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	84·41	?
	Mymensingh.	Kishoregunge	...	...	0·15	...	...	...	...	1	0·15	2·17	3·47	93·03	82·22
		Atia (*Tangail*)	...	0·85	0·31	...	0·15	...	...	3	1·31	4·15	2·49	44·[illegible]3	64·05
		Mymensingh	...	...	...	...	...	...	...	Nil	Nil	0·65	3·45	75·51	84·77
		Jamalpore ...	...	...	...	...	...	...	...	Nil	Nil	0·31	3·27	68·21	74·27
		Netrokona ...	...	0·02	...	...	0·92	...	...	2	0·94	1·28	3·87	87·61	82·70
		Subornakhally	...	0·02	0·05	...	...	...	0·15	3	0·22	1·09	?	66·20	
		Durgapore	...	...	...	...	1·10	...	...	1	1·10	1·96	?	118·60	
		ShereporeTown	...	...	...	...	...	...	...	Nil	Nil	0·25	?	?	
		Dewanganj .	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57·76	
NORTH BENGAL.	Pubna	Pubna ..	...	...	2·26	0·23	...	0·77	...	3	3·26	3·37	2·38	46·50	62·14
		Serajgunge ...	...	...	0·33	...	...	0·32	...	2	0·65	0·83	2·19	45·86	60·10
	Bogra	Sherpore .	...	0·11	...	...	...	0·06	...	2	0·17	0·52	2·17	44·84	64·09
		Nowkhilla ...	...	...	...	...	0·24	...	...	1	0·24	0·95	2·21	54·16	60·93
		Bogra ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·67	43·31	67·16
		Pauchbibi .	...	...	...	...	...	...	...	Nil	Nil	Nil	2·11	46·99	60·90
	Rajshahye	Beauleah ..	...	...	...	1·06	...	...	...	1	1·06	1·06	1·77	35·14	57·69
		Nattore ..	...	...	0·15	...	...	...	...	1	0·15	0·15	2·50	61·41	61·42
		Naogaon ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39·68	?
		Lalpore ...	...	...	...	...	0·45	...	...	1	0·45	0·45	?	42·10	?
		Manda ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	32·84	?
	Maldah ...	Maldah ..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·26	51·85	55·14
		Chanchal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·99	35·79	59·72
		Gajol ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·54	?
		Sibganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49·10	?
	Dinagepore ..	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	2·08	41·24	62·95
		Churamon .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·04	50·79	55·76
		Raigunge .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·76	53·56	63·30
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·51	59·79	68·86
		Rajoorghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0·83	42·13	56·23
		Thakoorgaon	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54·20	
	Rungpore ..	Bhawanigunge (*Gyabanda*)	...	...	...	...	...	0·14	...	1	0·14	0·14	2·27	50·68	68·65
		Rungpore ..	...	...	...	...	...	0·03	...	1	0·03	0·03	2·52	58·66	81·97
		Kurigram ..	...	...	...	...	1·05	0·08	...	2	1·13	1·13	4·04	81·05	84·62
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	Nil	Nil	Nil	2·60	60·12	92·08
		Ulipore ..	...	...	...	...	0·28	0·52	...	2	0·80	0·80	?	60·23	?
	Julpigoree ...	Julpigoree	...	...	...	...	0·74	0·33	...	2	1·07	1·07	3·23	109·30	127·08
		Alipore Dooar	...	...	0·31	0·40	...	0·60	...	3	1·31	1·31	?	9[illegible]·42	?
		Fallacotta .	...	...	...	1·52	0·66	0·80	0·18	4	3·20	3·63	?	101·23	?
		Debinagar .	...	...	...	...	1·15	...	...	1	1·15	1·15	?	66·83	?
		Bhagatpore (Nagrakatta).	0·18	...	...	...	0·34	1·30	0·02	4	1·84	1·84	?	?	?
	Cooch Behar..	Dinhatta	...	...	0·67	...	0·71	0·31	...	3	1·69	1·69	3·40	97·74	103·05
		Cooch Behar .	0·45	...	0·50	0·03	0·43	1·33	0·05	6	2·[illegible]9	2·59	4·2[illegible]	99·42	130·45
		Mekligunge	...	...	...	...	0·11	0·25	...	2	0·36	0·36	2·94	81·30	117·05
		Matabhanga. .	...	...	1·52	0·27	0·38	0·62	...	4	2·79	2·79	3·14	81·[illegible]2	12[illegible]·20
	Darjeeling Hill.	Buxa	0·32	1·00	0·18	0·15	...	1·01	1·02	6	3·68	4·69	4·60	[illegible]	210·19
		Silliguri ...	...	...	...	...	0·04	...	...	1	0·04	0·04	1·82	88·99	115·18
		Darjeeling ...	0·34	...	0·02	0·06	0·02	...	0·26	5	0·7[illegible]	1·10	2·60	97·64	118·[illegible]9
		Kalimpong .	...	...	0·56	...	0·13	...	0·66	3	1·3[illegible]	1·45	1·70	78·34	90·97
NORTH BEHAR	Purneah ...	Kissengunge..	...	...	...	...	...	...	...	Nil	Nil	Nil	1·67	50·03	75·15
		Arrareah .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·67	5[illegible]·47	65·07
		Purneah	...	...	...	...	...	...	...	Nil	Nil	Nil	1·16	46·85	65·89
		Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	
		Mattari ...	...	...	...	...	...	...	...	Nil	Nil	Nil		?	
		Kalsaganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil		60·05	
	North Bhagul-pore.	Maddapore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·14	61·06	52·80
		Soopool	...	...	...	...	...	...	...	Nil	Nil	Nil	1·08	45·53	51·06
		Protabganj ..	...	...	...	...	...	...	...	Nil	Nil	Nil		41·14	
	Durbhunga .	Tajpore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·64	46·10	44·83
		Durbhunga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·62	39·21	48·00
		Madhubani ..	...	...	...	...	...	...	...	Nil	Nil	Nil	0·7[illegible]	44·32	47·73
		Bahera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65·51	?
		Roshera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47·00	?
	Mozufferpore	Sitamarhi .	...	...	...	...	...	...	...	Nil	Nil	Nil	0·07	36·51	45·99
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·75	46·10	47·91
		Hajipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·44	49·12	48·49
		Paru ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·00	?
		Mahua ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·2[illegible]	?
		Bahar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42·94	?
		Pupri ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	25·[illegible]0	?
	Chumparun..	Motihari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·75	40·03	47·02
		Bettiah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·95	40·14	51·23
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·22	?
		Burhurwa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	4[illegible]	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 10th of May 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 4th May 1889.	Sunday, 5th May.	Monday, 6th May.	Tuesday, 7th May.	Wednesday, 8th May.	Thursday, 9th May.	Friday, 10th May.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1888.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	1·32	41 34	46·20
		Sewan	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	44·44	45·47
		Chuprah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·3[illegible]	39·25	42·07
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0 24	43 33	39·60
		Dehree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·22	46·13	40·17
		Bhuboosh	...	...	...	...	...	...	...	Nil	Nil	Nil	0 35	42·22	42·97
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	Nil	0·33	44 11	41·90
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·45	46 34	41 73
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38·29	?
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0 22	55·28	44·07
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·19	56 61	44·02
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0 46	51 18	41·79
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·32	49·12	41·97
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40·68	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43 15	?
		Sherghatty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35·35	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	28 58	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	38 91	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0 40	48·51	43·31
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·26	45 24	42·57
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0 63	56 52	43 75
		Barh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·67	59 61	41·37
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41·05	?
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50·16	?
	Monghyr	Begooserai	...	...	...	...	...	...	...	Nil	Nil	Nil	0·43	51·73	41·76
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	0·62	56·93	48·36
		Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	0 58	52 50	45·21
		Gogri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64·76	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60·73	?
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·63	56 73	44·37
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	44·01	46·77
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53 84	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	...	...	...	...	Nil	Nil	Nil	1·61	48·72	55·33
		Godda	...	...	...	...	...	...	...	Nil	Nil	Nil	0 72	52·17	47·33
		Pakour	...	...	0 17	...	0 05	...	...	2	0·22	0·22	0 72	65·88	57 43
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	Nil	0 89	55 21	56 55
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	0 74	54 00	52·98
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	Nil	0 92	57 93	50 84
		Mohasama	...	...	...	...	...	...	...	Nil	Nil	Nil		?	?
		Nunihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29 74	?
CHUTIA NAGPUR.	Hazaribagh	Paonambha (*Giridi*).	...	...	...	...	...	...	...	Nil	Nil	Nil	0·51	58 86	40 95
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	57·28	50 33
		Semaguran	...	...	...	...	...	...	...	Nil	Nil	Nil	1 02	57 89	48 81
		Mahudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0 67	56·34	50 55
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	1·24	64·90	64 88
		Barhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51 49	?
		Chatra	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58 40	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	Nil	?	54 60	?
		Ramghur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Lohardugga	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	Nil	0·32	50 22	54·00
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	Nil	0 70	54 64	55 64
		Palamow	...	...	...	...	...	...	...	Nil	Nil	Nil	0 21	53 85	44·98
		Sili	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Hosseinabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	48·28	?
	Singbhoom	Chyebassa	...	...	...	...	...	...	...	Nil	Nil	Nil	1·05	42·49	55·45
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56 52	?
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56·13	?
		Bahoragora	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62·32	?
	Manbhoom	Purulia	...	...	...	...	...	...	...	Nil	Nil	Nil	0·84	59·45	52·72
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	38 11	47 55
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55 87	?
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53 65	?
		Jhalda											?		?
		Chas	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?

Explanation.—... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 14*th May* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 10TH MAY 1889.

At the close of the previous week the general meteorological conditions which obtained were those of the hot weather in a very pronounced form. Throughout the present week these conditions have remained quite unaltered, and from its commencement up to its close the mean temperature of the province has been largely in excess of the normal. On Saturday, the 4th, pressure was falling at all stations except those in the west of the province, and as the fall was rather large in Assam and North Bengal, the deficiency of pressure over that area was increased, and thus the distribution of pressure was such that, while in Orissa and also at some of the stations in the south-west and south-east of the province pressure was above the normal, in North Bengal a defect of more than a tenth of an inch was recorded. Baric gradients over the province were therefore unusually steep, and perhaps this fact may account for the unusually strong southerly and south-westerly winds which were blowing at the head of the Bay and in South Bengal at this time, and which have continued to blow for practically the whole of the week. Temperature over the greater part of the province was also unusually high, the excess in the mean temperature ranging up to between 7° and 8° in South-West Bengal. On the 5th pressure rose slowly at most stations, but the general distribution remained unaltered, and pressure was still abnormally low in the north of the province. Very strong moist winds continued to blow at the head of the Bay, wind velocity at Saugor Island averaging 34 miles an hour. Temperature had risen still further on this day, and many stations in South-West Bengal showed mean temperatures from 10° to 12° in excess of the normal. A further rise of pressure took place on the 6th, and pressure became above the normal over the greater part of the province, and on this day the excess temperature became rather smaller. From the 7th pressure commenced to fall slowly up till the end of the week, when again a distribution of pressure obtained which was similar to that described at the commencement of the week. At the south-western, southern and south-eastern stations pressure was in excess of the normal by amounts ranging up to about 0·04 inch; while, on the other hand, at the stations in the centre and north of the province, pressure was below the normal by amounts which in many cases equalled nearly a tenth of an inch. Unusually steep baric gradients therefore again obtained, and winds were fairly strong over the whole province; a southerly and south-westerly current blowing in the south-western and southern districts, a southerly and south-easterly current in East Bengal, and easterly winds generally at the northern stations. The indraught over the land from the sea was at this time particularly strong, and from the 9th to the 10th the wind velocity at Saugor Island averaged 35 miles an hour, which almost amounts to a gale of wind. Very high temperatures continued to accompany these conditions, and the general mean temperature of the province at the close of the week was about 6° in excess of the normal.

These conditions have been unfavourable for the occurrence of local storms or nor'-westers over the greater part of the province for the week. In East and North Bengal conditions have been somewhat more favourable, and here local storms with rain have been rather numerous, particularly during the early part of the week; but even in these areas many districts have received practically no rain A few local storms have also occurred in the central and southern districts of South-West Bengal, but the whole of the remainder of the province has been practically rainless.

Pressure.—The main changes of pressure for the past seven days have been already alluded to. The distribution of pressure during the week has been similar to that which has existed now for some time, and has been decidedly abnormal from the fact that what almost amounts to a barometric depression has existed over the interior of the province. The feeble depression has generally occupied the area at the foot of the hills in North Behar and North Bengal, though it has moved sometimes towards the centre and west of the province. For the entire week the mean pressure of the whole of the province of Bengal has been about 0·013 inch in excess of the normal; but this excess is very unequally distributed, and in fact in some districts pressure is in defect. Defective pressures exceeding 0 02 inch are reported from Julpigoree, Chupra, Buxar, and Bhagulpore, while pressure has been in excess of the normal at such stations as Cuttack, False Point, Saugor Island, and Chittagong by more than 0 04 inch.

Temperature—As already stated, has been excessive, and throughout the week the mean temperature of the whole of the province of Bengal has averaged no less than six degrees in excess of the normal, while in South-West Bengal the excess amounts to almost eight degrees The mean temperature (*i.e.*, the mean of the daily maximum and minimum temperatures) of the stations in Chutia Nagpur, South-West Bengal, and South Behar has averaged about 93°, in North Bengal and Orissa it has averaged 87°, and in East Bengal about 85°. In Assam, on the other hand, temperature has been normal, and the mean tempera ure there only equals 77°.

Rainfall.—East Bengal has received an average fall of 1·30 inches of rain during the week, which is a little more than half the normal fall. North Bengal has reported an average of 0·64 inch, which is only about one-third of the normal, but in other districts rainfall has been practically absent.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 10th May 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1888.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	108·9	64·7?	94·6	79·3	87·2	+2·8	0·06	0·98	—0·92	0·2	1·8	—1·6	0·12	1·19	52·47	57·97
South-West Bengal ...	114·5	76·4	104·6	81·4	93·0	+7·9	0·12	1·38	—1·26	0·3	2·2	—1·9	0·14	1·86	58·47	58·40
East Bengal	97·2	68·2	92·2	77·2	84·7	+3·6	1·30	2·37	—1·07	1·7	3·1	—1·4	1·83	3·29	76·99	85·44
North Bengal	109·7	68·6	98·7	75·6	87·2	+5·5	0·64	1·69	—1·05	1·3	2·6	—1·3	0·70	2·35	58·50	77·13
North Behar	111·2	68·8	103·7	76·8	90·3	+6·7	Nil	0·62	—0·62	0·0	1·3	—1·3	Nil	0·90	45·73	51·46
South Behar	114·5	71·7	108·9	79·1	94·0	+6·3	0·01	0·41	—0·40	0·1	1·1	—1·0	0·01	0·54	51·74	45·66
Chutia Nagpur	109·3*	73·4*	105·7*	79·3*	92·5*	+8·5*	Nil	0·62	—0·62	0·0	1·6	—1·6	Nil	0·69	52·79	52·18
Assam	94·8	65·3	84·0	70·9	77·4	0										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 14th May 1889.

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 5th to 11th May 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May ...	5th ...	29·784	88·8	95·5	13·4	82·1	91·1	81·5	·947	77·6	65	Nil
,, ...	6th ...	·812	89·4	96·0	13·2	82·8	92·6	82·5	·965	78·2	64	,,
,, ...	7th ...	·818	88·7	96·8	16·2	80·6	92·1	82·9	1·0·2	79·3	67	,,
,, ...	8th ...	·806	89·6	98·4	17·6	80·8	92·6	83·5	1·026	80·0	67	,,
,, ...	9th ...	·807	88·4	96·0	15·2	80·8	92·1	83·0	1·007	79·5	67	,,
,, ...	10th ...	·762	90·0	98·6	17·3	81·3	94·4	81·0	·877	75·3	54	,,
,, ...	11th ...	·716	90·2	98·5	16·7	81·8	94·0	83·9	1·030	80·1	64	,,

	Inches.
The mean 10 A.M. pressure of the seven days	29·791
	°
The mean temperature of the seven days	89·3
The extreme variation of temperature	18·0
The maximum temperature	98·6
	%
The mean 10 A.M. relative humidity of the seven days	64
	Inches.
The total fall of rain from 5th to 11th May 1889	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA ;
The 13th May 1889.

A. PEDLER,
For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

FROM the annexed table, exhibiting the vital statistics of the principal Municipalities in Bengal, for the week ending 27th April 1889, it appears—

1. That births were registered in those Municipalities at the rate of 20· per 1,000 of population as opposed to very nearly the same proportion, viz., 19·7 per 1,000 in the preceding week ending 20th April, and deaths at 24·8 against 21· per 1,000, showing a large improvement in the registration of deaths.

2. That births and deaths were recorded at the highest rates in the following Municipalities:—

Births.

	Ratio per mille.
Comillah	38·5
Bhagulpore	35·3
Durbhanga	34·6
Darjiling	32·6
Rampore Beauleah	31·5
Purneah	31·2
Puri	29·4
Naraingunj	29·0

Deaths.

	Ratio per mille.
Purneah	58·9
Rampore Beauleah	57·8
Jessore	49·0
Burdwan	47·3
Comillah	42·4
Gya	38·3
Puri	37·8
Serampore	35·3
Durbhanga	33·0
Dacca	31·8
Monghyr	31·6

3. That, compared with the outcome of the preceding week, the maladies coming under the head of "Other causes" alone exhibits an increase of mortality, the fatal results from the other diseases exhibiting only fractional differences. The mortality from injury was the same as in the previous week; see figures below:—

	Ratio per mille during the weeks ending— 27th April 1889.	20th April 1889.
Cholera	4·4	4·2
Small-pox	7	·3
Fever	8·5	8·3
Bowel-complaints	2·5	2·0
Injury	·5	·5
Other causes	8·0	5·6

4. That the following Municipalities appear to have suffered most from the diseases specified in the above table, excepting injury, the death-rates from which were nowhere above normal:—

Cholera.

	Ratio per mille.
Purneah	45·0
Rampore Beauleah ...	34·2
Serampore	19·6
Dacca	14·3
Howrah	4·6
Gya	4·1
Durbhanga... ...	3·1

Small-pox.

	Ratio per mille.
Gya ...	2·0
Patna ...	1·3

Fever.

	Ratio per mille.
Jessore	49·0

Bowel-complaints.

	Ratio per mille.
Monghyr	10·8

Other causes.

	Ratio per mille
Burdwan	22·9
Bhagulpore	20·8
Tipperah	19·3
Midnapore	13·9
Gya	13·0
Puri	12·6
Serampore	11·8
Monghyr	10·8

5. That the mortality of the week classified under the heads of *Sex*, *Class* and *Age* stood as follows:—

According to Sex.

	Ratio per mille.
Males	28·4
Females	20·6
Ratio of male deaths to every 100 female deaths	148

According to Class.

	Ratio per mille.
Christians	26·3
Hindus	25·8
Mahomedans ...	21·7
Buddhists	25·7

According to Age.

	Ratio per mille.
Under 1 year ...	183·1
1 and under 5 years ...	39·5
5 " 10 " ...	13·1
10 " 15 " ...	12·3
15 " 20 " ...	16·6
20 " 30 " ...	17·3
30 " 40 " ...	14·1
40 " 50 " ...	18·1
50 " 60 " ...	26·6
60 years and upwards ...	51·8

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 14*th May* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 27th April 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
					Number of—			Ratio per 1,000 of Population per annum.				Disease. Deaths from—							Disease. Ratio per 1,000 of Population per annum.								Sex. Deaths.		Sex. Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan ...	18,063	16,117	34,080	5	4	9	7·6	6·1	13·7	125	...	...	10	6	...	15	31	...	...	15·3	9·1	...	22·9	47·3	13·7	19	12	54·7	39·0	158
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	4	11	10·8	6·2	17·0	175	1	...	3	2	...	9	15	1·5	...	4·6	3·1	...	13·9	23·2	12·4	8	7	24·6	21·9	114
Hughli ...	Hughli and Chinsurah ...	19,179	19,539	38,718	9	8	17	12·1	10·7	22·8	112	...	1	6	...	...	2	9	...	1·3	8·1	...	...	2·7	12·1	17·5	5	4	18·6	10·6	125
Serampore ...	Serampore ...	13,559	12,937	26,496	8	5	13	15·7	9·8	25·5	160	10	...	2	...	...	6	18	19·6	...	3·9	..	...	11·8	35·3	31·4	12	6	46·0	24·1	200
	Utterpara ...	3,046	2,464	5,510	2	1	3	18·9	9·4	28·3	200	1	...	1	...	...	1	3	9·4	...	9·4	...	...	9·4	28·3	28·3	2	1	34·1	21·1	200
Howrah ...	Howrah ...	53,153	37,660	90,813	17	21	38	9·7	12·0	21·8	80	8	1	10	1	1	8	29	4·6	·5	5·7	·5	·5	4·6	16·6	14·3	16	13	15·7	18·0	123
	Bali ...	7,836	6,979	14,815	4	3	7	14·0	10·5	24·6	133	...	...	2	...	1	1	4	...	...	7·0	...	2·5	3·5	14·0	7·0	3	1	19·9	7·5	300
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	4	7	11	7·6	13·2	20·8	57	...	...	1	...	...	1	2	...	...	1·9	...	...	1·9	3·8	17·0	1	1	3·9	3·7	100
	Ranaghat ...	4,028	4,655	8,683	...	1	1	...	6·0	6·0	No male birth.	1	...	1	...	...	1	3	6·0	...	6·0	...	...	6·0	18·0	.. ...	2	1	25·8	11·2	200
	Santipore ...	13,708	15,979	29,687	5	2	7	8·8	3·5	12·3	250	...	...	4	...	...	2	6	...	...	7·0	...	...	3·5	10·5	8·8	4	2	15·2	6·5	200
Jessore ...	Jessore ...	4,830	3,666	8,496	...	...	...	...	...	..	......	...	...	8	...	...	...	8	...	...	49·0	...	...	...	49·0	.....	4	4	43·1	56·8	100
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	9	3	12	23·6*	7·9	31·5	300	13	...	6	1	...	2	22	34·2	...	15·8	2·6	...	5·2	57·8	47·3	12	10	58·0	57·6	120
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	3	2	5	19·6	13·0	32·6	150	...	...	2	1	...	...	3	...	...	13·0	6·5	...	...	19·6	32·6	1	2	10·3	35·3	50
Dacca ...	Dacca ...	42,782	37,379	80,161	16	9	25	10·4	5·8	16·2	177	22	2	11	4	...	10	49	14·3	1·3	7·1	2·6	...	6·5	31·8	24·7	26	23	31·6	32·0	113
	Narainganj ...	7,605	4,956	12,561	4	3	7	16·6	12·4	29·0	133	1	...	1	2	...	2	6	4·1	...	4·1	8·3	...	8·3	24·8	12·4	5	1	34·2	10·5	500
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	3	4	2·3	7·0	9·4	33	2	...	3	2	...	4	11	4·7	...	7·0	4·7	...	9·4	25·8	21·1	7	4	27·3	23·7	175
Tippera ...	Comillah ...	8,153	5,353	13,506	2	8	10	7·7	30·8	38·5	25	2	...	4	...	...	5	11	7·7	...	15·4	...	...	19·3	42·4	30·8	5	6	31·9	55·3	83
Patna ...	Patna City ...	78,762	81,475	160,237	26	13	39	8·4	4·2	12·7	200	5	4	8	4	3	8	32	1·6	1·3	2·6	1·3	1·0	2·6	10·4	16·2	19	13	13·5	8·3	146
Gya ...	Gya ...	38,290	37,831	76,121	9	9	15	6·1	6·1	12·3	100	6	3	24	3	1	19	56	4·1	2·0	16·4	2·0	·7	13·0	38·3	43·7	38	18	51·6	24·7	211
Shahabad ...	Arrah ...	20,960	22,505	43,465	5	5	10	6·0	6·0	12·0	100	...	1	4	2	1	3	11	...	1·2	4·8	2·4	1·2	3·6	13·2	6·0	5	6	12·4	13·9	83
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	5	13	18	6·1	15·8	21·9	38	...	...	3	2	2	5	12	..	..	3·6	2·4	2·4	6·1	14·6	18·2	9	3	20·3	7·9	300
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	25	19	44	19·7	14·9	34·6	131	4	.	23	5	1	9	42	3·1	...	18·1	3·9	·8	7·1	33·0	23·6	25	17	38·5	27·3	147
Sarun ...	Chupra ...	26,044	27,205	53,249	11	11	22	10·7	10·7	21·5	100	...	1	10	2	...	10	23	...	1·0	9·8	1·9	...	9·8	22·5	14·6	12	11	24·0	21·0	109
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	21	18	39	19·0	16·3	35·3	116	1	...	7	...	...	23	31	·9	...	6·3	...	...	29·8	28·1	13·6	20	11	35·1	20·6	181
Monghyr ...	Monghyr ...	28,154	29,366	57,520	8	10	18	7·2	9·0	16·3	80	...	...	11	12	...	12	35	...	...	9·9	10·8	...	10·8	31·6	21·7	19	18	35·1	28·3	118
Purneah ...	Purneah ...	8,463	6,553	15,016	6	3	9	20·8	10·4	31·2	200	13	...	3	1	...	...	17	45·0	...	10·4	3·5	...	...	58·9	93·5	12	5	73·7	30·7	240
Puri ...	Puri ...	13,247	11,537	24,784	12	2	14	25·2	4·2	29·4	600	2	1	7	1	1	6	18	4·2	2·1	14·7	2·1	2·1	12·6	37·8	35·7	13	6	47·1	27·0	200
	Total ...	555,685	515,457	1,071,142	224	187	411	10·9	9·1	20·0	119	92	14	175	51	11	164	507	4·4	·7	8·5	2·5	·5	8·0	24·6	21·0	303	204	28·4	20·6	148

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remain as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of

MORTALITY ACCORDING TO—

Class (columns 13 and 14)

Districts.	Names of Municipalities.	13. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14. Ratio per 1,000 of Population per Annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	1	21	9	...	...	388·1	46·1	45·6	...	...
Midnapore	Midnapore	...	14	1	...	...	...	28·1	7·2	...	...
Hughli	Hughli and Chinsurah ...	...	6	3	...	...	...	9·9	22·9	...	...
Serampore	Serampore	...	17	1	...	...	...	35·0	55·4	...	...
	Utterpara	...	3	...	...	...	...	29·3	...	...	...
Howrah	Howrah	2	18	9	...	...	54·9	13·7	23·8	...	...
	Bali	...	3	1	...	...	...	11·6	39·7	...	...
Nuddea	Kishnaghur	...	1	1	...	...	...	2·8	6·3	...	...
	Ranaghat	...	3	...	...	...	...	21·3	...	...	...
	Santipore	...	4	2	...	...	..	10·0	11·6	...	...
Jessore	Jessore	...	6	2	...	...	...	69·2	27·2	...	...
Rajshahye	Rampore Beauleah	...	13	10	...	...	...	63·0	53·0	...	...
Darjiling	Darjiling	...	2	1	..	...	...	22·6	84·7	...	...
Dacca	Dacca	1	31	17	...	...	109·5	40·0	22·5	..	...
	Naraingunj	...	3	3	...	...	...	20·5	31·5	..	...
Chittagong	Chittagong	...	3	7	1	...	...	26·9	23·8	216·7	...
Tipperah	Comillah		4	7	...	...	...	35·0	49·3	...	...
Patna	Patna City	...	23	9	...	...	...	10·1	11·4	...	...
Gya	Gya	..	46	10	...	...	..	39·9	32·3	..	...
Shahabad	Arrah	...	9	2	...	...	...	15·1	8·4	...	...
Mozufferpore	Mozufferpore	...	9	3	...	...	...	15·6	12·6	...	...
Durbhanga	Durbhanga	...	35	7	...	...	...	37·6	20·7	...	...
Sarun	Chupra	...	20	3	...	...	...	25·3	13·0	...	...
Bhagulpore	Bhagulpore	...	25	6	...	...	...	32·7	18·1	...	...
Monghyr	Monghyr	...	31	4	...	...	...	36·1	16·5	...	...
Purneah	Purneah	...	12	5	...	...	...	68·0	45·9	...	..
Puri	Puri	...	18	..	...	..	...	38·2	...	...	..
	TOTAL ...	4	379	123	1	...	26·3	25·8	21·7	25·7	...

Age (columns 15 and 16)

Names of Municipalities.	15. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	16. Ratio per 1,000 of Population per Annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	4	1	...	3	3	6	5	4	2	3	315·2	23·0	......	62·0	49·9	39·4	37·7	47·1	42·4	105·3
Midnapore	2	4	...	...	2	2	1	2	1	1	140·0	88·4	......	......	32·9	14·2	9·4	27·9	25·2	28·4
Hughli and Chinsurah	1	4	...	...	...	1	1	1	...	1	55·1	78·0	......	......	......	6·8	7·4	10·1	......	20·7
Serampore	2	3	1	1	1	2	3	1	3	1	146·5	86·4	20·7	23·4	23·8	19·3	31·4	15·4	81·5	37·4
Utterpara	1	2	...	...	...	...	...	...	...	...	323·0	247·0	......	......	......	......	......	......	......	......
Howrah	2	3	2	1	1	9	6	2	...	3	50·4	28·2	16·5	7·9	7·2	20·6	16·2	8·8	......	41·6
Bali	...	1	...	...	...	2	...	...	...	1	......	52·1	......	......	......	31·1	......	......	......	71·0
Kishnaghur	...	...	...	...	...	...	...	1	...	1	......	......	......	......	......	......	......	15·9	......	30·1
Ranaghat	...	...	...	...	1	1	1	...	...	...	......	......	......	......	83·5	34·5	41·7	......	......	......
Santipore	2	1	...	1	1	...	...	...	...	1	123·1	17·9	......	17·9	23·4	......	......	......	......	26·5
Jessore	...	...	...	1	1	1	1	3	1	...	......	......	......	78·2	71·0	25·8	34·0	148·6	92·4	......
Rampore Beauleah	1	2	2	2	1	3	5	2	1	3	128·1	73·3	50·0	57·7	31·3	37·5	72·1	42·4	41·9	162·0
Darjiling	...	1	...	...	...	1	...	1	...	...	......	80·9	......	......	......	26·0	......	75·1	......	......
Dacca	6	8	4	...	2	10	5	3	2	9	164·4	56·4	21·0	......	14·2	33·9	23·3	18·6	22·0	84·0
Naraingunj	2	1	...	1	...	...	1	1	...	...	372·8	45·6	......	45·8	......	......	24·3	37·3	......	......
Chittagong	1	..	...	...	...	7	...	1	2	..	92·4	......	......	......	......	78·7	......	23·0	95·9	......
Comillah	2	3	2	...	...	1	2	...	...	1	350·2	119·3	63·9	......	......	18·8	52·2	......	......	76·7
Patna City	4	4	5	2	2	2	2	...	6	5	48·3	14·3	15·4	7·2	9·3	3·6	4·5	......	22·1	18·8
Gya	16	11	1	..	2	6	6	2	4		464·8	90·0	7·4	......	19·9	31·2	24·5	10·6	31·6	60·8
Arrah	2	3	...	...	...	2	..	1	1	2	80·7	35·2	......	......	...	13·2	......	11·1	16·8	36·1
Mozufferpore	...	1	2	3	1	...	...	3	1	1	......	12·9	23·1	39·4	17·2	......	......	31·2	16·0	21·4
Durbhanga	8	7	2	3	1	2	5	3	5	6	267·2	47·8	13·3	28·1	12·9	7·8	23·3	21·0	59·3	97·7
Chupra	7	1	2	...	2	5	...	2	...	4	252·1	9·8	16·9	......	29·1	27·3	......	16·6	......	59·8
Bhagulpore	8	5	2	1	1	2	2	4	4	2	343·4	48·0	17·7	8·3	12·4	9·5	11·2	32·4	48·3	28·9
Monghyr	11	4	...	1	2	1	...	3	4	9	385·2	33·4	......	9·1	27·5	5·0	......	24·5	53·3	130·5
Purneah	2	...	3	2	1	3	1	4	1	...	367·5	......	98·7	87·0	52·3	47·5	18·2	112·2	55·5	......
Puri	6	1	...	1	1	2	1		2	4	1,029·7	28·9	......	27·7	28·0	19·7	12·8	......	46·6	115·2
TOTAL	90	71	28	23	26	71	48	44	40	66	183·1	59·5	13·1	12·3	16·6	17·3	14·1	18·1	26·6	51·8

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 14th May 1889.

W. H. GREGG, *Dip. Publ Health, Camb.,*

Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1888-89.

Areas leased for Irrigation up to the end of March 1889.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Details of Areas Leased: Five years, all crops.	Five years, kharif.	Annual Leases: Kharif.	Rabi.	Sugar-cane.	Bhadoi.	Hot-weather.	Total.	Grand Total.	Rainfall, 1888-89: During the month.	Up to end of month.	Rainfall, 1887-88: During the month.	Up to end of month.	Remarks.
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches	Inches	Inches.	
Orissa	Cuttack	Taldunda, 1st Reach.	1,342	......	} 0·46	10,049	7,024	......	10,049	......	222	14	......	......	236	10,285	0·05	70·28	1·30	55·36	
		Taldunda, 2nd Reach.	566	75																	
		Machgong ...	776	......	......	27,239	19,763	......	27,240	......	1	......	......	......	1	27,241	......	{ 48·69 51·38	0·40 0·30	50·75 25·15	
		Kendrapara ..	1,067	110·55	80·10	49,744	38,065	......	49,447	20	2,338	40	......	......	2,398	51,845	......	38·38	......	34·46	
		Gobri ...	372·82	25·94	25·94	1,827	675	......	2,000	......	22	......	......	......	22	2,022	......	47·93	......	14·00	
		Gobri extension	648	25·15	14·71	2,356	......	......	1,499	......	......	......	......	......	......	1,499	No gauge fixed.				
		Pattamoondi .	885	100·40	75·23	9,449	8,082	......	10,541	......	8	......	......	......	8	10,549	......	......	......	......	
		High Level, Range I.	608	111·20	17·56	18,711	14,699	......	17,000	......	268	2	......	......	268	17,268	0·05	39·10	......	37·00	
		High Level, Range II.	727·16	43·09	1·00	2,482	1,516	......	1,822	12	60	......	......	......	72	1,894	......	......	......	......	
	Balasore ...	High Level, Range III.	727·16	......	......	20,898	9,710	......	23,217	92	......	134	......	......	226	23,443	0·06	51·50	......	62·04	
		Total ...	......	......	......	142,755	99,534	......	142,815	124	2,917	190	......	......	3,231	146,040	......	......	......	......	
	Total of the corresponding period of last year.		......	......	......	......	......	......	104,265	45	555	171	......	......	771	105,036	......	......	......	......	
South-Western.	Midnapore ...	Midnapore ...	1,411	61	......	49,769	57,909	......	56,271	114	......	......	......	......	114	56,385	0·00	68·00	0·13	55·38	Whole month discharging.
		Panchkoorah ...	522	24	......	4,619	3,578	......	5,537	8	3,369	......	......	......	3,377	8,914	0·00	59·47	0·20	56·21	23 days discharging.
	Howrah ..	Tidal Reaches, Ranges I and II.	......	......	......	399	207	......	566	......	......	......	......	......	......	566	......	......	......	......	
		Total ...	......	......	......	54,777	61,694	......	62,374	122	3,369	......	......	......	3,491	65,865	......	......	......	......	
	Total of the corresponding period of last year.		......	......	......	......	......	......	64,214	56	1,162	......	......	......	1,218	65,432	......	......	......	......	
Sone ...	Shahabad ...	Western Main ...	4,342	1,298	42	27,959	30,561	15,359	......	1,980	10,776	138	32	201	13,127	28,486	} 0·06	42·49	......	34·14	
		Buxar ...	1,226	329	167	91,481	85,385	46,137	......	18,009	21,625	1,603	171	1,972	43,450	89,587					
		Arrah ...	2,000	968	707	169,702	143,164	101,662	......	29,776	21,175	1,504	27	6,882	59,364	161,026	0·12	39·41	......	39·72	
	Patna and Gya.	Eastern Main ..	} 1,466	357	219	1,731	1,539	866	......	479	88	10	......	......	577	1,443	} 0·38	50·48	......	46·43	
		Patna ...				64,855	63,078	36,251	......	20,881	6,842	271	101	......	28,095	64,346					
		Total ...	......	......	......	355,728	323,727	200,275	......	71,125	60,576	3,526	331	9,055	144,613	344,888	......	......	......	......	
	Total of the corresponding period of last year.		......	......	......	......	......	209,199	......	43,429	16,785	3,891	224	9,313	73,648	282,841	......	......	......	......	
		Grand Total ...	......	......	......	553,260	484,955	200,275	205,189	71,371	66,862	3,716	331	9,055	151,335	556,799	......	......	......	......	
	Grand Total of the corresponding period of last year ...		......	......	......	......	......	209,199	168,479	43,530	18,502	4,062	224	9,313	75,631	453,309	......	......	......	......	

The 15th May 1889.

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of March 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
487	1. Grain ...	640	5,323	5,963	3,14,128	5,963	3,14,128	
......	2. Cotton ...	......	......	......	......	......	......	
103	3. Oilseeds ...	6	1,267	1,273	1,32,676	1,273	1,32,676	
213	4. Salt ...	1,891	......	1,891	1,62,112	1,891	1,62,112	
......	5. Piece-goods ...	......	......	......	......	......	......	
12	6. Metal ..	16	6	22	24,625	22	24,625	
24	7. Building materials	348	8	356	6,638	356	6,638	
605	8. Miscellaneous ...	1,865	2,777	4,642	8,47,414	4 642	8,47,414	
55	9. Fuel ...	504	48	552	7,575	552	7,575	
12 rafts.	10. Timber ...	1,657 c. ft.	1,260 c. ft.	2,917 c. ft	6,449	2,917 c. ft.	6,449	
......	11. Bamboos ...	......	......	......	......	......	......	
1,499 & 12 rafts.	12. Total ...	5,270 & 1,657 c. ft.	9,429 & 1,260 c. ft.	14,699 & 2,917 c. ft.	15,01,617	14,699 & 2,917 c. ft	15,01,617	
1,740 & 48 rafts.	13. Total of same month last year	5,019 & 579 c. ft.	9,256 & 3,464 c. ft.	14,275 & 4,043 c. ft.	14,32,031	14,275 & 4,043 c. ft.	14,32,031	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	674	825	1,499
14A. Ditto empty boats, steamers, &c. No.	748	130	878
15. Total number of boats plying passenger No.	665	547	1,212
15A. Ditto empty boats „	16	6	22
16. Total registered tonnage, cargo Tons	20,070	19,248	39,318
17. Total registered tonnage, passenger Tons	151	176	327
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	5,95,106	9,00,062	14,95,168
20. Number of passengers No.	1,703	1,218	2,921
21. Rafts, bamboos C. ft.	......	......	......
22. Do., bullahs „	1,657	1,260	2,917
23. Estimated value of rafts Rs.	2,669	3,780	6,449
24. Tollage on boats „	3,325-14-6	4,595-13-6	7,921-12-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	13-8-9	22-2-0	35-10-9
27. Total tollage on boats per ton-mile* ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	1-3-7

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,957	6	9
Total tollage of same month last year ...	7,873	12	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	225	13	4
2. Tollage per month ...	7,957	6	9
3. Total ...	8,183	4	1
4. Amount paid into Treasury during the month ...	7,654	3	7
5. Balance due at the end of the month ...	529	0	6

* Boats in these rivers do not pay per mile.

Abstract for the month of March 1889 *as compared with the corresponding month of the previous year.*

	1888-89. During the month. Rs. A. P.	1888-89. To end of the month. Rs. A. P.	1887-88. During the month. Rs. A. P.	1887-88. To end of the month. Rs. A. P.
Tollage	7,957 6 9	1,91,750 13 11	7,873 12 0	1,98,374 0 4

CALCUTTA,
The 14th May 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of March 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
306	1. Grain ...	3,045	415	3,460	1,35,992	3,460	1,35,992	
......	2. Cotton ...	......	......	......	......	......	......	
1	3. Oilseeds ...	1	......	1	125	1	125	
23	4. Salt ...	4	232	236	20,825	236	20,825	
7	5. Piece-goods ...	......	13	13	13,400	13	13,400	
3	6. Metal ...	......	15	15	4,170	15	4,170	
11	7. Building materials	......	38	38	377	38	377	
697	8. Miscellaneous ...	197	512	709	79,489	708	79,453	
35	9. Fuel ...	18	343	361	4,427	317	3,802	
7 rafts	10. Timber ...	178 c. ft.	8	186 c. ft.	122	186 c. ft.	122	
19 "	11. Bamboos ...	1,005 "	2,795	3,800 "	277	3,800 "	277	
1,083 & 26 rafts.	12. Total ...	3,265 & 1,183 c. ft.	1,568 & 2,803 c. ft.	4,833 & 3,986 c. ft.	2,59,204	4,788 & 3,986 c ft	2,58,543	
1,236 & 23 rafts.	13. Total of same month last year	5,002 & 1,839 c. ft.	1,785 & 62 c. ft.	6,787 & 1,901 c. ft.	2,81,456	6,787 & 1,901 c.ft.	2,81,456	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	514	569	1,083
15. Total number of boats plying passenger No.	64	67	131
16. Total registered tonnage, cargo Tons	4,945	6,846	11,791
17. Total registered tonnage, passenger Tons	854	947	1,801
18. Ton-mileage ...	2,24,216	1,88,034	4,12,250
19. Estimated value of cargo Rs.	1,26,862	1,31,943	2,58,805
20. Number of passengers No.	2,541	3,144	5,685
21. Rafts, bamboos C. ft.	1,005	2,795	3,800
22. Do., bullahs "	178	8	186
23. Estimated value of rafts Rs.	171	228	399
24. Tollage on boats "	3,936-3-9	3,296-8-3	7,232-12-0
25. Compounded tollage on boats Rs.	1-3-6	1-12-0	2-15-6
26. Tollage on rafts "	11-8-3	19-2-6	30-10-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-12-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,266	6	3
Total tollage of same month last year ...	7,209	4	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	4,241	3	0
2. Tollage per month ...	7,266	6	3
3. Total ...	11,507	9	3
4. Amount paid into treasury during the month ...	6,541	15	6
5. Balance due at the end of the month	4,965	9	9

Abstract for the month of March 1889 *as compared with the corresponding month of the previous year.*

	1888-89.		1887-88.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	7,266 6 3	67,372 11 6	7,209 4 6	55,299 6 6

CALCUTTA,
The 14*th May* 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of March 1889.

ORISSA CIRCLE.

TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 32 MILES. MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
37	1. Grain ...	97	282	379	14,443	379	14,443	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
332	7. Building materials	1	4,718	4,719	4,605	4,719	4,605	
4	8. Miscellaneous ...	1	11	12	1,733	11	633	
1	9. Fuel ...	......	4	4	25	4	25	
20 rafts.	10. Timber	......	324 No.	324 No.	408	324 No.	408	
32 „	11. Bamboos	......	28,800 „	28,800 „	440	28,800 „	440	
374 and 52 rafts.	12. Total ...	99 ...	5,015 & 29,124 No.	5,114 & 29,124 No.	21,654	5,113 & 29,124 No.	20,554	
73 and 98 rafts	13. Total of same month last year.	.	869 & 63,059 No.	869 & 63,059 No.	16,259	858 & 63,059 No.	15,709	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	16	358	374
15. Total number of boats plying passenger No.	18	2	20
15½. Total number of empty boats No.	266	36	302
16. Total registered tonnage, cargo Tons	172	8,710	8,882
17. Total registered tonnage, passenger Tons	625	6	631
17½. Total registered tonnage, empty boats Tons	2,328	602	2,930
18. Ton-mileage ...	41,611	1,39,144	1,80,755
19. Estimated value of cargo Rs.	8,532	12,274	20,806
20. Number of passengers No.	2,675	22	2,697
21. Rafts, bamboos „	......	28,800	28,800
22. Do., bullahs „	......	324	324
23. Estimated value of rafts Rs.	......	848	848
24. Tollage on boats „	292-3-0	1,260-14-0	1,553-1-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	42-1-9	42-1-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·60
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,595	2	9
Total tollage of same month last year ...	498	4	5

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ..	29	7	0
2. Tollage per month ...	1,595	2	9
3. Total ...	1,624	9	9
4. Amount credited in the accounts of the month ...	1,511	4	9
5. Balance due at the end of the month ...	113	5	0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
235	1. Grain ...	1,121	604	1,725	93,790	1,725	93,790	
...	2. Cotton ...	......	......	......	......	......	....	
14	3. Oilseeds ...	37	164	201	18,830	201	18,830	
11	4. Salt ...	22	21	43	4,030	43	4,038	
...	5. Piece-goods ...	......	......	......	......	......	.....	
...	6. Metal ...	......	......	......	......	......	......	
87	7. Building materials	......	772	772	7,435	290	5,445	
216	8. Miscellaneous ...	699	658	1,357	2,01,075	1,357	2,01,075	
5	9. Fuel ...	25	7	32	120	32	120	
19 rafts.	10. Timber .	......	1,300 No.	1,300 No.	1,970	1,300 No.	1,970	
48 "	11. Bamboos ...	......	1,11,625 "	111,625 "	2,900	111,625 "	2,900	
568 & 67 rafts.	12. Total ...	1,904	2,226 & 112,925 No.	4,130 & 112,925 No.	3,30,150	3,648 & 112,925 No	3,28,160	
529 & 61 rafts.	13. Total of same month last year	1,575	3,094 126,504 No.	4,669 & 126,504 No.	3,54,920	3,883 & 126,504 No.	3,52,900	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	328	240	568
15. Total number of boats plying passenger No.	65	72	137
15½. Total number of empty boats No.	216	239	455
16. Total registered tonnage, cargo Tons	3,599	3,510	7,109
17. Total registered tonnage, passenger Tons	1,459	1,918	3,377
17½. Total registered tonnage, empty boats Tons	2,422	1,005	3,427
18. Ton-mileage ...	184,976	213,713	398,689
19. Estimated value of cargo Rs.	1,67,935	1,57,345	3,25,280
20. Number of passengers No.	2,955	5,527	8,482
21. Rafts, bamboos "	......	111,625	111,625
22. Do., timbers "	......	1,300	1,300
23. Estimated value of rafts Rs.	......	4,870	4,870
24. Tollage on boats "	2,982-7-5	3,022-14-4	6,005-5-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	195-9-7	195-9-7
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-2-6

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	6,200	15	4
Total tollage of same month last year ...	5,941	6	5

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	4,742	3	8
2. Tollage per month ...	6,200	15	4
3. Total ...	10,943	3	0
4. Amount credited in the accounts of the month ...	6,518	3	7
5. Balance due at the end of the month ...	4,424	15	5

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
178	1. Grain ...	685	2	687	27,000	687	27,000	
...	2. Cotton ...	......	......	......	......	......	......	
13	3. Oilseeds ...	24	......	24	2,030	24	2,030	
40	4. Salt ...	......	83	83	7,150	83	7,150	
...	5. Piece-goods ..	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
95	7. Building materials	23	931	954	430	23	160	
84	8. Miscellaneous ...	135	126	261	19,220	261	19,220	
12	9. Fuel ...	109	......	109	300	109	300	
11 rafts.	10. Timber ..	1,278 No.	.....	1,278 No.	780	1,278 No.	780	
3 "	11. Bamboos ...	1,450	2,200 No.	3,650 "	70	3,650 "	70	
422 & 14 rafts.	12. Total ...	976 & 2,728 No.	1,142 & 2,200 No.	2,118 & 4,928 No.	56,980	1,187 & 4,928 No.	56,710	
398 & 13 rafts.	13. Total of same month last year.	1,182 2,932 No.	853 11,100 No.	2,035 & 14,032 No.	73,300	1,467 & 14,032 No.	72,970	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	257	165	422
15. Total number of boats plying passenger No.	......	2	2
15½. Total number of empty boats No.	121	223	344
16. Total registered tonnage, cargo Tons	1,815	2,235	4,050
17. Total registered tonnage, passenger Tons	......	7	7
17½. Total registered tonnage, empty boats Tons	727	943	1,670
18. Ton-mileage ...	24,093	36,447	60,540
19. Estimated value of cargo Rs.	32,840	23,290	56,130
20. Number of passengers No.	......	2	2
21. Rafts, bamboos "	1,450	2,200	3,650
22. Do., timber "	1,278	......	1,278
23. Estimated value of rafts Rs.	810	40	850
24. Tollage on boats "	518-9-6	351-5-9	869-15-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	99-0-3	2-1-0	101-1-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2 7
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	2-0-9

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	971	0	6
Total tollage of same month last year	1,036	12	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	91	4	6
2. Tollage per month ...	971	0	6
3. Total ...	1,062	5	0
4. Amount credited in the accounts of the month	851	3	6
5. Balance due at the end of the month ...	211	1	6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
114	1. Grain ...	451½	......	451½	18,100	451½	18,100	
......	2. Cotton ...	......	......	......	......	.. . .	......	
5	3. Oilseeds ..	......	6	6	448	6	448	
9	4. Salt ...	......	33	33	4,670	33	4,670	
6	5. Piece-goods ...	......	6	6	1,680	6	1,680	
......	6. Metal ...	......	......	......	......	......	......	
70	7. Building materials	......	1,370	1,370	623	......	......	
20	8. Miscellaneous ...	3½	66	69½	9,833	69½	9,833	
5	9. Fuel ...	......	35	35	82	35	82	
4 rafts	10. Timber ...	......	204 No. 1,224 c. ft.	204 No. 1,224 c. ft.	612	204 No. 1,224 c. ft.	612	
44 "	11. Bamboos ...	......	25,250 No.	25,250 No.	659	25,250 No.	659	
229 & 48 rafts.	12. Total ...	455	1,516 & 1,224 c. ft. 25,250 No.	1,971 & 1,224 c. ft. 25,250 No.	36,707	601 & 1,224 c.ft. 25,250 No.	36,084	
252 & 49 rafts.	13. Total of same month last year.	180½ 45 No.	1,427 18,048	1,607½ & 18,093 No.	31,110	296 & 18,093 No.	29,865	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	116	113	229
14½. Total number of empty boats No.	173	107	280
15. Total number of boats plying passenger No.	1	2	3
15½. Total number of empty boats No.	......	......	......
16. Total registered tonnage, cargo Tons	910	3,032	3,942
16½. Total registered tonnage, empty boats Tons	1,089	356	1,445
17. Total registered tonnage, passenger Tons	1	4	5
17½. Total registered tonnage, empty boats Tons.	......	......	......
18 Ton-mileage	22,932	35,187	58,119
19. Estimated value of cargo Rs.	18,172	17,264	35,436
20. Number of passengers No.	514	335	849
21. Rafts, bamboos "	......	25,250	25,250
22. Do., bullahs c ft.	......	1,224	1,224
23. Estimated value of rafts Rs.	. .	1,271	1,271
24. Tollage on boats "	248-13-6	562-4-0	811-1-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	18-14-9	18-14-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·68
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-7-6

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	830	0	3
Total tollage of same month last year ...	701	2	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	0	13	6
2. Tollage per month ...	830	0	3
3. Total ...	830	13	9
4. Amount credited in the accounts of the month ...	830	13	9
5. Balance due at the end of the month ...	Nil.		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
68	1. Grain ...	286	......	286	1,56,368	244	1,53,966	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
2	4. Salt ...	......	5	5	220	5	220	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
73	7. Building materials	......	614	614	1,603	......	......	
6	8. Miscellaneous ...	......	32	32	4,935	19	3,045	
...	9. Fuel ...	......	......	......	......	......	......	
5 rafts.	10. Timber ...	......	36 216 c ft.	216 c. ft.	15	216 c. ft.	15	
6 do.	11. Bamboos ...	......	800 No.	800 No.	39	800	39	
149 & 11 rafts.	12. Total ...	286	651	937 216 c. ft. 800 No.	1,63,180	268 216 c. ft. 800 No.	1,57,285	
116 & 3 rafts.	13. Total of same month last year.	126½	659 200 No.	785½ 200 No.	8,338	135½ 200 No.	7,685	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	68	81	149
14½. Total number of empty boats No.	73	66	139
15. Total number of boats plying passengers No.	......	......	......
15½. Total number of empty boats No.	......	......	......
16. Total registered tonnage, cargo Tons	572	1,102	1,674
16½. Total registered tonnage, empty boats Tons	487	260	747
17. Total registered tonnage, passenger Tons	......	......	......
17½. Total registered tonnage, empty boats No.	......	......	......
18. Ton-mileage ...	11,648	14,435	26,083
19. Estimated value of cargo Rs.	1,56,368	6,758	1,63,126
20. Number of passengers No.	371½	336	707½
21. Rafts, bamboos „	......	800	800
22. Do., bullahs c. ft.	......	216	216
23. Estimated value of rafts Rs.	......	54	54
24. Tollage on boats „	141-15-9	263-6-6	405-6-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	0-13-0	0-13-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·98
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-6-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	406	3	3
Total tollage of same month last year	325	4	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	406	3	3
3. Total ...	406	3	3
4. Amount credited in the accounts of the month ...	406	3	3
5. Balance due at the end of the month ...	......		

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1	1. Grain ...	1½	......	1½	153	1½	153	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
4	7. Building materials	......	8	8	18	8	18	
7	8. Miscellaneous ...	......	12	12	2,874	12	2,874	
...	9. Fuel ...	......	......	......	......	......	......	
24 rafts	10. Timber ...	......	812 No. 4,872 c. ft.	4,872 c. ft.	1,624	4,872 c. ft.	1,624	
6 "	11. Bamboos ..	......	3,800 No.	3,800 No.	114	3,800 No.	114	
12 30 rafts.	12. Total ...	1½	20 4,872c. ft. 3,800 No.	21½ 4,872 c. ft. 3,800 No.	4,783	21½ 4,872 c.ft. 3,800 No.	4,783	
...	13. Total of same month last year	......	......	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1	11	12
14½. Total number of empty boats No.	6	......	6
15. Total number of boats plying passenger No.	1	2	3
15½. Total number of empty boats No.	......	2	2
16. Total registered tonnage, cargo Tons	6	40	46
16½ Total registered tonnage, empty boats Tons	21½	......	21½
17. Total registered tonnage, passenger Tons	½	1	1½
17½. Total registered tonnage, empty boats Tons	......	1	1
18. Ton-mileage ...	150	230	380
19. Estimated value of cargo Rs	153	2,892	3,045
20. Number of passengers No.	1	2	3
21. Rafts, bamboos "	......	3,800	3.800
22. Do., bullahs c.ft.	......	4,872	4,872
23. Estimated value of rafts Rs.	......	1,738	1,738
24. Tollage on boats "	1-6-0	3-14-0	5-4-0
25. Compounded tollage on boats ... Rs.	......	......	......
26. Tollage on rafts "	...	6-13-6	6-13-6
27. Total tollage on boats per ton-mile Rs	......	......	0-0-2·44
28. Total tollage on rafts per 100 cubic feet Rs.	..	......	0-2·0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	12	1	6
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	......		
2. Tollage per month ...	12	1	6
3. Total ...	12	1	6
4. Amount credited in the accounts of the month ...	12	1	6
5. Balance due at the end of the month ...	......		

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,638	1. Grain ...	7,710	610	8,320	3,59,270	8,320	3,59,270	
1	2. Cotton ...	......	10*	10*	180	10*	180	*Mds.
36	3. Oilseeds ...	152	155	307	29,848	307	29,843	
156	4. Salt ...	......	1,469	1,469	1,38,389	1,469	1,38,389	
3	5. Piece-goods ...	......	46	46	1,32,700	46	1,32,700	
10	6. Metal	32	26	58	39,946	58	39,946	
18	7. Building materials	195	6	201	1,020	201	1,020	
388	8. Miscellaneous ...	972	685	1,657	2,60,577	1,657	2,60,577	
26	9. Fuel ...	62	58	120	2,128	120	2,128	
61 rafts.	10. Timber ...	8,902 c. ft.	187 c. ft.	9,089 c. ft	4,946	9,089 c. ft	4,946	
8 „	11. Bamboos ...	282 „	......	282 „	27	282 „	27	
2,276 & 69 rafts.	12. Total ..	9,123 & 9,184 c. ft.	3,055 & 187 c. ft.	12,178 & 9,371 c. ft	9,69,026	12,178 & 9,371 c. ft.	9,69,026	
2,032 & 105 rafts.	13. Total of same month last year.	10,482 & 30,295 c. ft.	2,690 & 400 c. ft.	13,172 & 30,695 c. ft.	11,09,790	12,949 & 30,695 c. ft.	11,09,165	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,837	439	2,276
15. Total number of boats plying passenger No.	552	730	1,282
15½. Total number of empty boats No	715	1,312	2,027
16. Total registered tonnage, cargo Tons	24,926	6,352	31,278
17. Total registered tonnage, passenger Tons	3,739	3,771	7,510
17½. Total registered tonnage, empty boats Tons	2,916	5,471	8,387
18. Ton-mileage ..	6,98,455	3,15,179	10,13,634
19. Estimated value of cargo Rs.	4,30,369	5,33,684	9,64,053
20. Number of passengers No.	6,846	9,435	16,281
21. Rafts, bamboos c. ft	282	......	282
22. Do., bullahs „	8,902	187	9,089
23. Estimated value of rafts Rs	4,611	362	4 973
24. Tollage on boats „	10,987-1-6	4,843-6-0	15,830-7-6
25. Compounded tollage on boats Rs	......	......	......
26. Tollage on rafts „	166-4-3	0-12-0	167-0-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-12-6

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	15,997	7	9
Total tollage of same month last year ..	13,508	6	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	5,418	2	4
2. Tollage per month ...	15,997	7	9
3. Total ...	21,415	10	1
4. Amount paid into Treasury during the month ..	15,531	7	6
5. Balance due at the end of the month ...	5,884	2	7

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
321	1. Grain ...	2,277	1	2,278	87,300	2,278	87,300	
..	2. Cotton ...		......	......	......	......	......	
...	3. Oilseeds ..	.. ..	.. ...	......	......	...	......	
55	4 Salt ...	......	475	475	52,700	475	52,700	
16	5. Piece-goods ...	... ..	53	53	36,875	53	36,875	
4	6. Metal ..	11	16	27	6,450	16	3,450	
37	7. Building materials	247	62	309	1,613	302	1,573	
798	8. Miscellaneous ...	974	525	1,499	87,807	1,499	87,807	
51	9. Fuel ...	91	399	490	3,176	454	2,926	
1 raft	10. Timber ...	... ..	26 c. ft.	26 c.ft.	26	26 c.ft.	26	
6 „	11. Bamboos ...	100	1,575 „	1,675 „	160	1,675 „	160	
1,282 & 7 rafts.	12. Total ..	3,600 100	1,531 & 1,601 c ft.	5,131 & 1,701 c. ft.	2,76,197	5,077 & 1,701 c. ft.	2,72,817	
......	13. Total of same month last year	......	.....	......	......	......	... ..	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	557	725	1,282
15. Total number of boats plying passenger No.	34	53	87
16. Total registered tonnage, cargo Tons	7,463	6,145	13,608
17. Total registered tonnage, passenger Tons	434	546	980
18. Ton-mileage	144,780	1,34,558	279,338
19. Estimated value of cargo Rs.	1,07,020	1,68,901	2,75,921
20. Number of passengers No.	1,238	2,234	3,472
21. Rafts, bamboos c. ft.	100	1,575	1,675
22. Do., bullahs „	......	26	26
23. Estimated value of rafts Rs.	6	180	186
24. Tollage on boats „	2,540-1-6	2,342-3-6	4,882-5-0
25. Compounded tollage on boats Rs.	......	6 0-0	6-0-0
26. Tollage on rafts „	0-4 0	4-9-6	4-13-6
27. Total tollage on boats per ton-mile Rs	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-4-6

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	4,893	2	6
Total tollage of same month last year	......		

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,629	13	9
2. Tollage per month ...	4,893	2	6
3. Total ...	6,523	0	3
4. Amount paid into Treasury during the month ...	5,013	1	3
5. Balance due at the end of the month	1,509	15	0

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
13	1. Grain ...	1	138	139	6,463	139	6,463	
...	2. Cotton ...	......	......	......	......	......	......	
32	3. Oilseeds ...	1	320	321	28,574	321	28,574	
8	4. Salt ...	116	......	116	8,439	116	8,439	
26	5. Piece-goods ...	210	.....	210	30,800	210	30,800	
...	6. Metal ...	2	......	2	1,036	2	1,036	
37	7. Building materials	252	66	318	4,010	226	2,792	
44	8. Miscellaneous ...	47	265	312	34,251	189	34,051	
1	9. Fuel { By boat	2	......	2	30	2	30	
	„ raft	......	3	3	10	3	10	
20	10. Timber. { By boat	228	......	228	8,430	13	900	
	„ raft	8	938	946	7,540	949	7,540	
11	11. Bamboos. { By boat	119	......	119	2,720	119	2,720	
	„ raft	12	2,465	2,477	36,174	2,477	36,174	
192	12. Total ...	998	4,195	5,193	1,68,477	4,766	1,59,529	
170	13. Total of same month last year.	729	5,972	6,701	2,14,068	6,620	2,12,507	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	108	84	192
15. Total number of boats plying passenger No.	4	4	8
15½. Total number of empty boats No.	52	34	86
16. Total registered tonnage, cargo Tons	1,545	897	2,442
17. Total registered tonnage, passenger Tons	108	108	216
17½. Total registered tonnage, empty boats Tons	208	164	372
18. Ton-mileage ...	93,054	2,58,000	3,51,054
19. Estimated value of cargo Rs.	60,992	63,761	1,24,753
20. Number of passengers No.	290½	268½	559
21. Rafts, bamboos „	1,775	3,69,820	3,71,595
22. Do., bullahs c. ft.	600	70,585	71,185
23. Estimated value of rafts Rs.	906	42,818	43,724
24. Tollage on boats „	826-1-3	771-7-9	1,597-9-0
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts „	1-3-0	1,466-15-3	1,468-2-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-0·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	3,215	11	3
Total tollage of same month last year ...	4,435	5	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	263	4	3
2. Tollage per month ...	3,215	11	3
3. Total ...	3,478	15	6
4. Amount credited in the accounts of the month	2,343	15	0
5. Balance due at the end of the month ...	1,135	0	6

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
5	1. Grain ...	1	52	53	4,017	53	4,017	
......	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ...	2	55	57	5,670	57	5,670	
21	4 Salt ...	262	......	262	27,970	262	27,970	
......	5. Piece-goods ..	17	......	17	22,525	17	22,525	
......	6. Metal ...	3	1	4	2,54,160	4	2,54,160	
15	7. Building materials	1	139	140	810	38	345	
65	8. Miscellaneous ...	28	362	390	42,518	374	41,433	
4	9. Fuel ...	86	......	86	840	43	420	
......	10. Timber ...	......	2	2	77	2	77	
Raft.	11. Bamboos ...	......	372	372	3,361	372	3,361	
	11. Bullahs ...	......	282	282	1,719	282	1,719	
	11. Firewood ...	......	296	296	975	296	975	
112	12. Total ...	400	1,561	1,961	3,64,642	1,800	3,62,672	
127	13. Total of same month last year.	468	2,281	2,749	5,06,285	2,663	5,04,994	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	37	75	112
15. Total number of boats plying passenger No.	3	1	4
15½. Total number of empty boats No.	60	3	63
16. Total registered tonnage, cargo Tons	724	987	1,711
17. Total registered tonnage, passenger Tons	88	64	152
17½. Total registered tonnage, empty boats Tons	219	15	234
18. Ton-mileage ...	49,844	48,724	98,568
19. Estimated value of cargo Rs.	3,08,249	50,338	3,58,587
20. Number of passengers No.	1,082	879	1,961
21. Rafts, bamboos c.ft.	......	55,872	55,872
22. Do., bullahs "	......	21,160	21,160
22½. Do., firewood "	......	22,242	22,242
23. Estimated value of rafts Rs.	......	6,055	6,055
24. Tollage on boats "	231-5-9	391-3-9	622-9-6
25. Compounded tollage on boats. Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts "	......	207-13-0	207-13-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·1
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-3-4

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,286	6	6
Total tollage of same month last year ...	1,563	15	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	68	3	0
2. Tollage per month ...	1,286	6	6
3. Total ...	1,354	9	6
4. Amount credited in the accounts of the month	1,254	1	9
5. Balance due at the end of the month ...	100	7	9

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
2	1. Grain ...	...	37	37	3,321	37	3,321	
..	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ...	1	57	58	4,695	58	4,695	
...	4. Salt ...	1	......	1	103	1	103	
...	5. Piece-goods ...	2	......	2	2,240	2	2,240	
...	6. Metal ...	1	...	1	710	1	710	
1	7. Building materials	......	3	3	31	......	......	
11	8. Miscellaneous ...	19	126	145	16,376	140	16,326	
...	9 Fuel ...	......	......	......	......	......	......	
Rafts.	10. Timber ...	......	388	388	3,239	388	3,239	
	11 Bamboos ...	...	474	474	6,855	474	6,855	
16	12 Total ..	24	1,085	1,109	37,570	1,101	37,489	
63	13. Total of same month last year	90	1,541	1,631	72,002	1,391	63,921	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3	13	16
15. Total number of boats plying passenger No.	8	10	18
15½. Total number of empty boats No.	14	2	16
16. Total registered tonnage, cargo Tons	27	1,146	1,173
17. Total registered tonnage, passenger Tons	216	270	486
17½. Total registered tonnage, empty boats Tons	46	8	54
18. Ton-mileage ...	2,908	9,944	12,852
19. Estimated value of cargo Rs.	4,548	22,928	27,476
20. Number of passengers No.	673½	774½	1,448
21. Rafts, bamboos c. ft.	......	71,043	71,043
22. Do., bullahs "	......	29,116	29,116
23. Estimated value of rafts Rs.	.....	10,094	10,094
24. Tollage on boats "	18-5-6	85-15-3	104-4-9
25. Compounded tollage on boats Rs.	75-0-0	139-0-0	214-0-0
26. Tollage on rafts "	......	395-11-9	395-11-9
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-4·75
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-6-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	714	0	6
Total tollage of same month last year ...	977	5	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	50	2	0
2. Tollage per month ...	714	0	6
3. Total ...	764	2	6
4. Amount credited in the accounts of the month ...	725	7	9
5. Balance due at the end of the month ...	38	10	9

ABSTRACT FOR THE MONTH OF MARCH 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1888-89. During the month.	Traffic, 1888-89. To end of the month.	Traffic, 1887-88. During the month.	Traffic, 1887-88. To end of the month.	Remarks.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Circle.					
Taldunda Canal System ...	1,595 2 9	4,285 13 9	498 4 5	6,295 7 8	
Kendrapara Canal System	6,200 15 4	51,708 11 10	5,941 6 5	47,914 6 8	
High Level, Range I ...	971 0 6	6,680 10 3	1 036 12 9	8,442 13 5	
Ditto, " II ...	830 0 3	3,392 9 9	701 2 9	4,021 0 3	
Ditto, " III ..	406 3 3	1,600 8 9	325 4 0	1 311 0 9	
Jajepore Canal	12 1 6	98 14 3	......	... ..	
Total Orissa Circle ...	10,015 7 7	67,767 4 7	8,502 14 4	67,984 12 9	
South-Western Circle.					
Midnapore Canal ...	15,997 7 9	1,47,689 4 3	13,508 6 9	1,25,721 12 9	
Hidgellee Tidal Canal ...	4,893 2 6	55,419 15 3	......	40,046 14 0	
Total South-Western Circle	20,890 10 3	2,03,109 3 6	13,508 6 9	1,65,768 10 9	
Sone Circle.					
Patna Canal System ...	3,215 11 3	25,165 0 0	4,435 5 6	28,206 4 1	
Arrah ditto ...	1,286 6 6	18,420 8 8	1 563 15 0	15,305 14 0	
Buxar ditto ...	714 0 6	8,826 3 0	977 5 9	8,029 13 5	
Total Sone Circle ...	5,216 2 3	52,411 11 8	6,976 10 3	51,511 15 6	
GRAND TOTAL ...	36,122 4 1	3,23,288 3 9	28,987 15 4	2,85,295 7 0	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1888-89. During the month. Passengers.	Goods.	Total receipts.	Traffic, 1888-89. To end of the month. Passengers.	Goods.	Total receipts.	Traffic, 1887-88. During the month. Passengers.	Goods.	Total receipts.	Traffic, 1887-88. To end of the month. Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	1,144	4,000	1,549 10 0	6,448	11,179	8,064 13 8	260	706	333 11 5	3 323	6,190	4,365 7 2
Total Orissa Circle ...	1,144	4,000	1,549 10 0	6,448	11,179	8,064 13 8	260	706	333 11 5	3,323	6,190	4,365 7 2

TOTAL NAVIGATION RECEIPTS.

Canal	Earnings, 1888-89. During the month.	Earnings, 1888-89. To end of the month.	Earnings, 1887-88. During the month.	Earnings, 1887-88. To end of the month.	Remarks.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	11,565 1 7	75,832 2 3	8,836 9 9	72,350 3 11	
Midnapore Canal ...	15,997 7 9	1,47,689 4 3	13,508 6 9	1,25,721 12 9	
Hidgellee Tidal Canal ...	4,893 2 6	55,418 15 3	... ..	40,046 14 0	
Sone Canals ...	5,216 2 3	52,411 11 8	6,976 10 3	51,541 15 6	
Total ...	37,671 14 1	3,31,353 1 5	29,321 10 9	2,89,660 14 2	

CALCUTTA,

The 14*th May* 1889.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Calcutta and Eastern Canals.

Statement showing quantities of Goods carried during the month of March 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
972	1. Grain ...	20,891	19	20,910	21,85,405	20,910	21,85,405	* For detail, see next page.
1	2. Cotton ...	1	......	1	285	1	285	
42	3. Oilseeds ...	412	......	412	47,500	412	47,500	
360	4. Salt ...	441	5,475	5,916	5,59,035	5,916	5,59,035	
......	5. Piece-goods ...	......	......	......	......	......	......	
6	6. Metal ...	88	......	88	11,800	88	11,800	
279	7. Building materials	9,887	65	9,952	1,94,403	9,952	1,94,403	
1,588	8. Miscellaneous*...	9,339	1,527	10,866	14,71,630	10,866	14,71,630	
612	9. Fuel ...	12,708	1,222	13,930	1,07,044	13,930	1,07,044	
......	10. Timber ...	......	......	......	......	......	......	
5 rafts.	11. Bamboos ...	1,200 c. ft.		1,200 c. ft.	150	1,200 c. ft	150	
3,860 & 5 rafts.	12. Total ...	53,767 & 1,200 c. ft.	8,308	62,075 & 1,200 c. ft.	45,77,252	62,075 1,200 c.ft.	45,77,252	
5,209 & 1 raft.	13. Total of same month last year.	71,765 & 800 c. ft.	7,657	79,422 & 800 c. ft.	52,15,374	79,422 & 800 c. ft	52,15,374	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3,330	530	3,860
14a. Ditto empty „	2,176	714	2,890
15. Total number of boats plying passenger No.	322	3	325
16. Total registered tonnage, cargo Tons	156,937	23,791	180,728
17. Total registered tonnage, passenger Tons	940	8	948
18. Ton-mileage ...	1,329,765	2,37,910	1,567,675
19. Estimated value of cargo Rs.	38,48,763	7,28,339	45,77,102
20. Number of passengers No.	1,434	8	1,442
21. Rafts, bamboos C. ft.	1,200		1,200
22. Do., bullahs „	......	......	......
23. Estimated value of rafts Rs.	150	......	150
24. Tollage on boats „	32,811-4-3	5,830-13-0	38,642-1-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	3-0-0	......	3-0-0
27. Total tollage on boats per ton-mile Pie	......	......	Pies. 4·73
28. Ditto on rafts per 100 cubic feet Rs.	......	......	0-4-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	38,645	1	3
Total tollage of same month last year ..	49,148	2	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,898	4	0
2. Tollage per month ...	38,645	1	3
3. Total	40,543	5	3
4. Amount paid into Treasury during the month ...	38,375	11	3
5. Balance due at the end of the month ...	2,167	10	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
196	(a) Jute ...	4,991	......	4,991	6,98,750	4,991	6,98,750	
43	(b) Jaggery ...	369	45	414	37,700	414	37,700	
21	(c) Sugar ...	126	......	126	26,437	126	26,437	
2	(d) Tobacco ...	......	11	11	1,800	11	1,800	
386	(e) Fish ...	136	......	136	38,251	136	38,251	
5	(f) Hides ...	5	......	5	1,690	5	1,690	
72	(g) Poultry ...	83	......	83	11,675	83	11,675	
174	(h) Hay and straw ...	1,177	......	1,177	22,196	1,177	22,196	
77	(j) Oil ...	32	1,014	1,046	1,46,500	1,046	1,46,500	
59	(k) Earthenware ...	104	1	105	1,471	105	1,471	
553	(m) Other miscellaneous ...	2,316	456	2,772	4,85,160	2,772	4,85,160	
1,588	Total Miscellaneous...	9,339	1,527	10,866	14,71,630	10,866	14,71,630	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of March 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
2,137	1. Grain ...	8,171	2	8,173	6,51,718	8,173	6,51,718	* For detail, see next page.
8	2. Cotton ...	84	......	84	44,650	84	44,650	
10	3. Oilseeds ...	137	......	137	13,437	137	13,437	
61	4. Salt ...	491	346	837	79,143	837	79,143	
......	5. Piece-goods ...	......	......	......	......	......	......	
20	6. Metal ...	334	......	334	37,400	334	37,400	
433	7. Building materials	3,937	...	3,937	26,668	3,937	26,668	
1,258	8. Miscellaneous* ...	3,960	111	4,071	3,67,008	4,071	3,67,008	
324	9. Fuel ...	4,216	14	4,230	32,234	4,230	32,234	
3 rafts.	10. Timber ...	990 c. ft.	......	990 c. ft.	2,475	990 c. ft.	2,475	
9 „	11. Bamboos ...	587 c. ft.	......	587 c. ft.	73	587 c. ft.	73	
4,251 & 12 rafts.	12. Total ...	21,330 & 1,577 c. ft.	473	21,803 & 1,577 c. ft.	12,54,806	21,803 & 1,577 c. ft.	12,54,806	
5,221 & 17 rafts.	13. Total of same month last year ...	25,865 & 3,525 c. ft.	425	26,290 & 3,525 c. ft.	14,88,494	26,290 & 3,525 c. ft.	14,88,494	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	4,194	57	4,251
14a. Ditto empty ... „	1,290	171	1,461
15. Total number of boats plying passenger ... No.	395	20	415
16. Total registered tonnage, cargo ... Tons	66,509	2,050	68,559
17. Total registered tonnage, passenger ... Tons	962	69	1,031
18. Ton-mileage	5,21,206	32,800	5,54,006
19. Estimated value of cargo Rs.	12,07,088	45,170	12,52,258
20. Number of passengers No.	2,786	125	2,911
21. Rafts, bamboos C. ft.	587	......	587
22. Do., bullahs „	990	......	990
23. Estimated value of rafts Rs.	2,548	......	2,548
24. Tollage on boats „	10,396-4-0	519-4-0	10,915-8-0
25. Compounded tollage on boats ... Rs.	......	......	......
26. Tollage on rafts „	13-8-6	......	13-8-6
27. Total tollage on boats per ton-mile Rs.	......	......	P. 3·78
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-13-8

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	10,929	0	6
Total tollage of same month last year ...	15,560	1	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	594	10	0
2. Tollage per month ...	10,929	0	6
3. Total	11,523	10	6
4. Amount paid into Treasury during the month ...	10,733	2	0
5. Balance due at the end of the month ...	790	8	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value Rupees.	Remarks.
2	(a) Jute ...	4	......	4	625	4	625	
55	(b) Jaggory ...	406	3	409	37,294	409	37,294	
2	(c) Sugar ...	20	......	20	4,312	20	4,312	
13	(d) Tobacco ...	87	......	87	14,550	87	14,550	
179	(e) Fish ...	29	......	29	8,062	29	8,062	
......	(f) Hides ...	......	......	......	......	......	......	
3	(g) Poultry ...	1	......	1	136	1	136	
529	(h) Hay and straw...	925	......	925	12,945	925	12,945	
43	(j) Oils ...	345	5	350	49,025	350	49,025	
179	(k) Earthenware ...	212	2	214	3,024	214	3,024	
253	(m) Miscellaneous ...	1,931	101	2,032	2,37,035	2,032	2,37,035	
1,258	Total Miscellaneous...	3,960	111	4,071	3,67,008	4,071	3,67,008	

ABSTRACT FOR THE MONTH OF MARCH 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1888-89.						Traffic, 1887-88					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	38,645	1	3	4,32,287	12	3	49,148	2	9	4,30,416	12	3
Tolly's Nullah	10,929	0	6	1,33,203	4	9	15,560	1	9	1,41,455	3	3
Total ...	49,574	1	9	5,65,491	1	0	64,708	4	6	5,71,871	15	6

CALCUTTA,
The 14*th May* 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of April 1889.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
Distance.	From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah						
Miles.	90		134	48	90		177	87	287	110	381	94	471	90	591	120						
	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level	Height over zero	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero	Height over mean sea level.	Height over zero.	Height over mean sea-level	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st	2·75	208·97	1·25	198·05	3·17	172·22	7·90	142·13	Below zero. 3·42	98·43	Below zero. 1·00	67·00	Below zero 0·17	41·83	1·92	10·86	1·08	34·82	3·27	7·57	Below zero. 0·65	148·11
2nd	2·58	208·80	1·17	197·97	3·17	172·22	7·90	142·13	3·46	98·39	1·08	66·92	0·17	41·83	2·08	11·02	1·08	34·82	3·33	7·68	Above zero. 0·12	148·88
3rd	2·58	208·80	1·00	197·80	3·17	172·22	7·80	142·03	3·50	98·35	1·08	66·92	0·19	41·81	2·25	11·19	1·08	34·82	3·25	7·55	0·10	148·86
4th	2·58	208·80	0·92	197·73	3·17	172·22	7·70	141·93	3·58	98·27	1·17	66·83	0·21	41·79	2·17	11·11	1·04	34·78	3·13	7·43	Below zero. 0·10	148·66
5th	2·50	208·72	0·83	197·63	3·08	172·13	7·70	141·93	3·67	98·18	1·25	66·75	0·23	41·77	2·00	10·94	1·04	34·78	2·88	7·19	0·20	148·56
6th	2·33	208·55	0·75	197·55	3·08	172·13	7·70	141·93	3·79	98·06	1·33	66·67	0·25	41·75	2·00	10·94	1·04	34·78	2·42	6·72	0·40	148·36
7th	2·17	208·39	0·67	197·47	3·08	172·13	7·70	141·93	3·92	97·93	1·33	66·67	0·27	41·73	2·00	10·94	1·00	34·74	2·50	6·80	0·80	147·96
8th	2·17	208·39	0·58	197·38	3·00	172·05	7·70	141·93	4·00	97·85	1·42	66·58	0·29	41·71	2·00	10·94	1·00	34·74	2·25	6·55	1·10	147·66
9th	2·08	208·30	0·50	197·30	3·00	172·05	7·70	141·93	4·08	97·77	1·50	66·50	0·29	41·71	1·75	10·69	0·96	34·70	2·00	6·30	1·40	147·36
10th	2·08	208·30	0·42	197·22	3·00	172·05	7·70	141·93	4·13	97·72	1·50	66·50	0·27	41·73	1·58	10·52	0·96	34·70	1·67	5·97	1·50	147·26
11th	2·00	208·22	0·25	197·05	2·92	171·97	7·50	141·73	4·17	97·68	1·58	66·42	0·27	41·73	1·25	10·19	0·96	34·70	1·71	6·01	1·30	147·46
12th	1·83	208·05	0·17	196·97	2·92	171·97	7·50	141·73	4·21	97·64	1·50	66·50	0·29	41·71	1·17	10·11	0·92	34·66	1·71	6·01	0·30	148·46
13th	1·83	208·05	0·08	196·88	2·83	171·88	7·50	141·73	4·25	97·60	1·50	66·50	0·29	41·71	1·25	10·19	0·92	34·66	2·04	6·34	Above zero. 0·90	149·66
14th	1·75	207·97	0·00	196·80	2·83	171·88	7·50	141·73	4·33	97·52	1·58	66·42	0·31	41·69	1·25	10·19	0·88	34·62	2·29	6·59	1·10	149·86
15th	1·67	207·89	Below zero. 0·08	196·72	2·75	171·80	7·50	141·73	4·38	97·47	1·67	66·33	0·31	41·69	1·58	10·52	0·88	34·62	2·83	7·13	1·30	150·06
16th	1·67	207·89	0·25	196·55	2·75	171·80	7·40	141·63	4·38	97·47	1·67	66·33	0·27	41·73	1·75	10·69	0·83	34·57	3·29	7·59	1·60	150·36
17th	1·50	207·72	0·42	196·38	2·67	171·72	7·40	141·63	4·42	97·43	1·67	66·33	0·21	41·79	2·25	11·19	0·83	34·57	4·00	8·30	1·40	150·16
18th	1·42	207·64	0·50	196·30	2·58	171·63	7·40	141·63	4·50	97·35	1·67	66·33	0·21	41·79	3·00	11·94	0·79	34·53	4·33	8·63	2·10	150·86
19th	1·25	207·47	0·54	196·26	2·50	171·55	7·40	141·63	4·54	97·31	1·75	66·25	0·23	41·77	2·42	11·36	0·79	34·53	4·33	8·63	2·50	151·26
20th	1·25	207·47	0·58	196·22	2·50	171·55	7·20	141·43	4·58	97·27	1·75	66·25	0·25	41·75	2·50	11·44	0·75	34·49	4·21	8·51	2·40	151·16
21st	1·25	207·47	0·63	196·17	2·42	171·47	7·20	141·43	4·61	97·24	1·67	66·33	0·27	41·73	3·33	12·27	0·75	34·49	3·79	8·09	3·30	152·06
22nd	1·17	207·39	0·67	196·13	2·33	171·38	7·20	141·43	4·67	97·18	1·75	66·25	0·27	41·73	3·67	12·61	0·75	34·49	2·75	7·05	3·50	152·26
23rd	1·08	207·30	0·67	196·13	2·25	171·30	7·20	141·43	4·71	97·14	1·67	66·33	0·25	41·75	3·58	12·52	0·75	34·49	2·00	6·30	4·80	153·56
24th	1·00	207·22	0·71	196·09	2·17	171·22	7·15	141·38	4·79	97·06	1·67	66·33	0·25	41·75	3·17	12·11	0·71	34·45	1·75	6·05	4·35	153·11
25th	1·00	207·22	0·83	195·97	2·08	171·13	7·10	141·33	4·92	96·93	1·75	66·25	0·27	41·73	2·92	11·86	0·71	34·45	1·67	5·97	4·10	152·86
26th	0·92	207·14	1·00	195·80	2·08	171·13	7·10	141·33	5·00	96·85	1·75	66·25	0·27	41·73	3·17	12·11	0·71	34·45	1·79	6·09	4·80	153·56
27th	0·83	207·05	1·17	195·63	2·00	171·05	7·10	141·33	5·08	96·77	1·58	66·42	0·25	41·75	3·50	12·44	0·71	34·45	2·00	6·30	5·50	154·26
28th	0·75	206·97	1·25	195·55	1·92	170·97	7·00	141·23	5·13	96·72	1·58	66·42	0·25	41·75	3·67	12·61	0·71	34·45	2·33	6·63	5·60	154·36
29th	0·67	206·89	1·33	195·47	1·83	170·88	7·00	141·23	5·17	96·68	1·67	66·33	0·21	41·79	4·17	13·11	0·67	34·41	3·04	7·34	5·40	154·16
30th	0·58	206·80	1·42	195·38	1·75	170·80	7·00	141·23	5·25	96·60	1·75	66·25	0·19	41·81	4·75	13·69	0·67	34·41	3·46	7·76	5·20	153·96

CALCUTTA;
The 15th May 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 11th May 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 11th May 1889.			Week ending Saturday, the 12th May 1888		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	168	43,425	625	473	1,48,105	2,702
Jute	7	3,275	51	9	5,600	88
Firewood	51	27,725	413	179	92,525	1,494
Other articles	535	1,60,700	2,199	805	2,42,845	3,576
Total ...	766	2,35,125	3,288	1,466	4,89,075	7,860

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 5 weeks ended 30th March 1889, as compared with the same period of 1888.

Staples.		1889.		1888.		Increase.		Decrease.	
		Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
		Mds.	Rs	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	Horses, ponies, and mules ...	No. 104	2,122	No. 68	1,908	No. 36	214	No. ...	......
	Cattle	" 51	470	" 70	321	" .	149	" 19	..
	Sheep and goats	" 4,161	3,817	" 2,887	2,307	" 1,274	1,310	"	......
	Other kinds	" 14	21	" 4	...	" 14	21	"	......
Borax		2,607	1,772	6,354	5,158	......	......	3,747	3,386
Canes and rattans		241	812	233	804	8	8	.. ...	.... .
Caoutchouc (Indian-rubber)		13	6	7	1	6	5	.	... .
Chinese and Japanese ware		21	7	43	57	......	. .	22	50
Coal and coke, up		11,14,110	3,62,710	8,88,940	2,94,920	2,25,170	67,790	......	... ..
Ditto, down		38,10,492	4,95,006	29,33,902	4,04,546	8,76,590	90,460	.... .	......
Cotton, raw		1,91,449	1,38,147	1,14,599	81,847	76,850	56,300	......	......
COTTON, MANUFACTURED.	Twist and yarn (European) ..	10,325	14,104	10,928	15,744	..	......	601	1,640
	Ditto (Indian) ...	11,830	7,102	10,235	6,108	1,595	994	......	... .
	Piece-goods (European) ...	1,75,396	2,23,616	1,52,868	1,88,479	22,528	35,137	... ..	. .
	Ditto (Indian)	25,217	16,077	27,136	18,023	... ..	.....	1,919	1,946
DRUGS AND MEDICINES.	Asafœtida	387	270	223	97	164	173	.. .	..
	Other sorts, not intoxicating	1,905	1,758	2,006	1,841	... .	......	101	83
	Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	1,210	775	1,910	1,463	. ....	... .	700	688
DYEING MATERIALS.	Indigo	609	390	535	407	14	......	... ..	17
	Madder or manjit	48	13	25	8	23	5	.. ..	..
	Safflower	2,947	2,717	4,505	4,838	......	. ..	1,558	1,016
	Turmeric	13,681	7,867	14,787	10,354	.....	. .. .	1,106	2,487
	Other kinds	19,490	7,810	20,390	8,168	. ..	.	900	358
Earthenware and porcelain		1,612	3,985	1,651	4,165		.	39	180
FIBROUS PRODUCTS.	Jute, raw	23,249	3,063	17,038	4,321	6,211		... .	1,258
	Do., manufactured (gunny bags and cloths).	91,103	46,505	82,944	40,004	8,159	6,501	. . ..	...
	Other fibres, raw	17,998	6,327	18,581	10,345	......	. ..	583	4,018
	Ditto, manufactured ..	1,758	804	2,318	885	. .	... ..	560	81
FRUITS & NUTS	Cocoanuts	7,627	4,900	7,052	5,227	575	.. ..	...	327
	All other kinds	32,956	21,865	40,204	29,460	..	. .	7,248	7,595
GRAIN & PULSES	Wheat	2,39,269	71,157	2,12,579	56,387	26,690	14,770	.	. .
	Gram and pulses	2,35,271	52,970	2,64,601	63,670		.. ..	29,330	10,700
	Rice, husked	10,07,906	1,91,551	9,26,176	2,61,401	81,730	..		69,850
	Do., unhusked . ..	51,604	4,306	10,984	1,166	40,620	3,140	.. ..	
	Other rain and spring crops ...	73,985	10,770	1,54,785	29,540	...	.. .	80,800	18,770
Government stores.		23,020	35,983	22,137	38,199	883	.. .	.	216
Gums and resins		6,482	5,467	7,592	5,475	......	... ..	1,110	8
HIDES & SKINS...	Hides of cattle	77,445	54,107	85,069	59,289	. .	.. .	7,624	5,182
	Skins of sheep, goats, and small animals.	15,120	6,570	18,507	9,718	... ..		3,387	3,148
Horns		2,227	1,298	1,808	998	419	300	......	..
LAC ..	Lac, dye	39	52	82	53	......	......	43	1
	Do., shell .. .	17,172	13,313	19,042	15,211	..	... .	1,870	1,898
	Do., stick and other kinds ...	25,426	8,838	22,411	7,905	3,015	933	....	. .
LEATHER ...	Leather, unmanufactured ..	1,641	3,237	1,905	4,419	... .	. ..	364	1,182
	Ditto, manufactured ...	2,791	3,972	3,303	4,875	..	.	512	903
Liquors		17,568	17,159	17,783	17,078	.	81	215	.. .
Mats		760	344	618	369	142	..	..	25
Minerals		2,24,905	29,140	1,88,036	27,220	36,867	1,920		..
METALS AND MANUFACTURES OF	Brass and copper	16,500	9,452	20,459	10,263	.	. ..	3,959	811
	Iron	1,13,896	58,393	1,23,520	73,409	.. ..	. .	9,624	15,016
	Other metals	8,750	6,348	8,385	6,406	365	. ..	..	58
Oils		55,[illegible]	27,153	51,043	29,123	3,337	..	...	1,970
Opium		37,051	37,767	18,432	20,916	18,619	16,851	.. .	... .
Paints and colours		1,057	3,849	3,575	3,622	......	227	2,518	.
PROVISIONS ..	Ghee	31,201	17,716	21,896	20,372	9,305	.....	......	2,656
	Other kinds	8,490	8,587	7,902	8,533	588	54		......
Railway materials, Construction Account		1,29,633	3,223	2,07,923	4,875	... ..	.	78,290	1,652
Ditto ditto, Foreign		3,20,900	67,458	3,56,392	1,45,796	... .	... ..	35,492	78,338
Salt		6,10,368	1,16,393	5,27,277	1,16,910	83,091	.. .	. . .	517
SALTPETRE, &c	Saltpetre	83,438	38,878	84,215	38,387	... ..	491	777	... .
	Other saline substances .	11,913	3,696	21,646	7,026	... ..	... .	9,733	3,330
SEEDS — OIL-SEEDS.	Linseed	2,99,456	84,521	3,72,736	1,20,461	..	... .	73,280	35,940
	Mustard and rape	2,94,750	65,743	4,28,920	1,44,443	.	.. ..	1,34,170	78,700
	Til or gingelly	7,570	1,056	15,710	2,746	... .	.... .	8,140	1,690
	Other oilseeds	82,222	34,020	97,842	40,180	.. . .	... ..	15,620	6,160
SEEDS — OTHER SEEDS	Indigo seed	52,690	15,324	50,850	16,584	1,840	.	......	1,260
	Tea seeds	.		..	...	.. .	.. .		
	Other kinds	37,332	10,175	34,132	12,145	3,200	. .	......	1,970
SILK ..	Silk, raw	2,799	1,619	3,005	1,576	....	43	206	......
	Do., manufactured (European)	...	... .	...	......	. . ..	......	......	......
	Do., ditto (Indian)...	515	429	471	324	44	95	.....	......
Spices		56,396	38,235	57,784	40,428	...	......	1,388	2,193
Stone and marble		2,24,061	32,249	1,38,962	20,788	85,099	11,461		......
SUGAR	Sugar, refined	2,73,774	58,452	3,01,853	64,258	...		28,079	5,806
	Do., unrefined	4,79,854	58,857	4,25,292	57,421	54,562	1,436	... ..	... ..
TEA	Tea, Indian	843	2,141	1,337	926	......	1,215	494	......
	Do., Foreign	1,321	50	1,881	70	... .	......	560	20
Tobacco		42,282	18,260	90,996	36,397	.... .	......	48,714	18,137
WOOD .	Timber	92,502	16,921	77,869	12,954	14,633	3,967	...	......
	Firewood	32,434	2,642	66,018	5,393	......	......	33,584	2,751
WOOL .	Wool, raw	877	683	1,771	2,545	. ....	......	894	1,862
	Do., manufactured (European).	....		... .	......	. ....	......	......	......
	Wool, manufactured (Indian)	952	826	1,064	776	.... .	50	112	......
	Shawls	3	1	4	2	..	.. .	1	1
*All other articles of merchandise		2,95,390	1,96,221	2,70,820	1,64,162	24,570	32,059	... ..	.... .
Bones		41,840	10,392	44,788	12,794	.. ...	......	2,948	2,402
Potatoes		62,932	9,520	54,994	9,120	7,938	400	......	......
Total ...		1,13,91,846	29,41,851	1,03,67,378	29,04,444	17,15,390	3,48,260	6,30,922	4,00,853

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	*273,780	*2,80,317 6 0	29,67,161 30	7,41,776 12 0	17,828 0 0	10,39,922 2 0	63,410½	107,795½	171,206½
Or per mile of railway	.	185 3 5	.	490 1 8	11 12 6	687 1 7	... .	.. ..	......
For previous 17 weeks of half-year	4,506,748	51,71,721 11 0	4,68,73,333 20	1,03,37,710 9 4	2,70,819 6 8	1,57,80,251 11 0	1,117,712½	1,631,529½	2,749,242½
Total for 18 weeks	4,780,528	54,52,039 1 0	4,98,40,495 10	1,10,79,487 5 4	2,88,647 6 8	1,68,20,173 13 0	1,181,123½	1,739,325½	2,920,448½
Comparison.									
Total for corresponding week of previous year	287,526	3,08,910 9 8	27,91,327 0	7,06,327 4 3	18,834 9 4	10,34,072 7 3	66,645	110,962	177,607
Per mile of railway corresponding week of previous year	.	204 1 1	... .	466 9 9	12 7 1	683 1 11	......	......	... ..
Total to corresponding date of previous year	4,840,731½	55,73,339 2 6	5,12,48,556 20	1,19,75,981 12 7	3,98,098 10 5	1,79,47,419 9 6	1,191,985	1,904,992	3,096,977

* The decrease in coaching traffic is chiefly due to figures for the corresponding period of 1888 having included heavier receipts on account of troop, extra, and ordinary special trains and marriage ceremonies.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	10,34,073	683	1,513¾	10,39,923	687	1,513¾	49,73,763	657	1,513¾	47,00,953	621	......	2,72,810

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, on 57⅝ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,183	6,090 14 9	49,346 10	3,547 11 0	68 15 0	9,707 8 9	1,602	1,216	2,818
Or per mile of railway	230½	106 7 9	862 30	62 0 4	1 3 4	169 11 5	......	......	......
For previous 17 weeks of half-year	*247,079	*1,36,464 4 0	†6,70,090 20	†40,171 0 0	‡873 6 10	1,77,508 10 10	32,371½	9,694	42,065½
Total for 18 weeks	260,262	1,42,555 2 9	7,19,436 30	43,718 11 0	942 5 10	1,87,216 3 7	33,973½	10,910	44,883½
Comparison.									
Total for corresponding week of previous year	13,712½	5,972 6 11	46,022 30	3,371 11 0	38 13 0	9,382 13 11	1,700	694	2,394
Per mile of railway corresponding week of previous year	240	104 6 7	804 30	58 15 2	0 10 10	164 0 7	....	....	......
Total to corresponding date of previous year	266,545½	1,40,177 3 0	7,26,774 30	49,244 1 0	789 10 3	1,90,210 14 3	32,012	12,231	44,243

* Added No. of passengers 11,358 and Rs. 8,092 0 0 }
† Ditto Mds. 36,840 and „ 1,121 0 0 } on account of differences between the approximate and audited returns to week ended 30th March 1889.
‡ Ditto „ 146 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,383	164	57½	9,708	170	57½	175	179	57½	50,530	177	......	645

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 30th March 1889.

INCREASES.

Coal and coke.—There was an increase in both the upwards and downwards traffic; that in the former was due to a large demand both by foreign railways and the public. In downwards traffic the increase may be ascribed chiefly to larger takings of coal by steamers, and also to brick-burning operations in connection with the Kidderpore Docks.

Cotton.—The increase under this head was due to despatches to Howrah for export.

Piece-goods, European.—This was chiefly in despatches from Howrah, and the increase was general.

Gunny.—Principally in long distance despatches from Howrah and adjacent stations for Cawnpore, Hathras, Delhi, and the Oudh and Rohilkhund and North-Western Railways.

Wheat.—The increase was principally in long distance traffic to Howrah, and was due to a fair demand in Calcutta.

Opium.—Due to despatches of manufactured opium from Patna and Tarighat having been delayed till March.

Stone.—This is in continuation of the increase reported for February.

DECREASES.

Fruits, other kinds.—Chiefly in betel-nuts from Calcutta, and hurra from stations on the Allahabad district.

Gram and pulses—

Other rain and spring crops.—There were large decreases at Bhagalpur, Mokameh and Barh owing to there not being the same surplus as in 1888, while up-country demands were less.

Rice (husked and unhusked).—There was an increase in weight carried, but decrease in earnings. The former was due to good crops in the neighbourhood of Burdwan, Raneegunge, and other stations on the Howrah district, and to a good demand in Calcutta; while the decreased earnings are explained by the circumstances that as with gram, pulses, and other grains, the up-country demand was limited, and there was therefore practically no long lead traffic during the month.

Hides.—The decrease under this head was principally from Delhi for Calcutta, owing to accumulations in Calcutta of North-Western descriptions, and the absence of demand causing prices to recede below sellers' views.

Iron.—Due to an exceptionally large traffic in iron during March 1888.

Railway material—Foreign.—This was due to considerable despatches of material for the Indian Midland Railway having been made *viâ* Jubbulpore to Jhansi last year.

Salt.—There was an increase in the despatches of imported salt from Howrah, counterbalanced by decreased receipts of country salt at Agra and Delhi for onwards carriage.

Seeds.—The decrease was in linseed, mustard and rapeseed and other oilseeds, and was due to limited demand from Europe and short stocks up-country.

Sugar and jaggree.—There was an increase in weight carried, attended with a decrease in earnings, and the former was due to short distance despatches from Delhi to Etawah and Firozabad principally; from *viâ* Ghaziabad to the same and other stations on the Tundla district, and from Delhi Shadara. The decreased earnings were partly due to diversion by the Indian Midland Railway.

Tobacco.—Due to the crops having been seriously injured by a hailstorm in February last.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, JAMALPUR, 10*th May* 1889.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 27th April 1889, *on* 673 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	124,990	66,430 0 0	6,36,390 0	90,550 0 0	23,070 0 0	1,80,050 0 0	21,260	22,270	43,530
Or per mile of railway	186	99 0 0	945 0	135 0 0	†16 0 0	250 0 0	......	......	......
For previous 16 weeks of half-year ...	2,345,986	12,36,972 0 0	80,44,914 0	13,48,784 0 0	2,67,925 0 0	*28,53,681 0 0	341,917	388,883	730,800
Total for 17 weeks ...	2,470,976	13,03,402 0 0	86,81,304 0	14,39,334 0 0	2,90,995 0 0	30,33,731 0 0	363,186	411,153	774,339
COMPARISON.									
Total for corresponding week of previous year ...	123,444	62,805 0 0	(a)8,28,919 0	74,933 0 0	18,802 0 0	1,56,540 0 0	21,289	22,002	43,891
Per mile of railway corresponding period of previous year ..	183	93 0 0	1,232 0	111 0 0	†12 0 0	216 0 0	......	......	......
Total to corresponding date of previous year	2,384,691	12,50,599 0 0	94,68,977 0	13,15,217 0 0	2,70,059 0 0	28,35,875 0 0	373,778	415,757	789,535

* Audited up to week ending 16th March 1889.
† Excluding steamer earnings.
(*a*) Includes 4,00,000 maunds for ballast train.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,56,540	233	673	1,80,050	267	673	5,49,053	204	673	6,29,010	234	79,957	......

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	26,050	9,410 0 0	72,760 0	5,580 0 0	40 0 0	15,030 0 0	3,597	2,075	5,672
Or per mile of railway ...	208	75 0 0	582 0	45 0 0	......	120 0 0	......	......	......
For previous 16 weeks of half-year ...	†451,696	1,61,809 0 0	†8,78,061 0	48,835 0 0	4,497 0 0	*2,15,141 0 0	56,612	31,625	88,237
Total for 17 weeks ...	477,746	1,71,219 0 0	9,50,821 0	54,415 0 0	4,537 0 0	2,30,171 0 0	60,209	33,700	93,909
COMPARISON.									
Total for corresponding week of previous year ...	23,243	7,842 0 0	40,207 0	2,815 0 0	59 0 0	10,716 0 0	3,419	2,031	5,450
Per mile of railway corresponding period of previous year ...	186	63 0 0	322 0	23 0 0	......	86 0 0	......	......	......
Total to corresponding date of previous year ...	444,588	1,51,468 0 0	8,85,420 0	55,196 0 0	3,803 0 0	2,10,523 0 0	57,166	33,815	90,981

* Audited up to week ending 16th March 1889.
† Ditto ditto 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,716	86	125	15,030	120	125	43,776	88	125	52,236	104	8,460	......

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, *on* 12 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,074	521 1 9	17,816 20	532 13 0	8 0 0	1,061 14 9	343½	150	493½
Or per mile of railway	.....	43 6 10	......	44 6 5	0 10 8	88 7 11	......	......	...
For previous 17 weeks of half-year	*48,011	*8,139 2 0	†3,08,019 10	†7,010 10 0	‡165 1 8	15,314 13 8	5,883½	2,365½	8,218½
Total for 18 weeks ...	51,085	8,660 3 9	3,25,835 30	7,543 7 0	173 1 8	16,376 12 5	6,226½	2,515½	8,742
Comparison.									
Total for corresponding week of previous year	4,304	745 3 2	25,941 20	936 10 0	15 15 0	1,697 12 2	194	299	493
Per mile of railway corresponding week of previous year .	......	62 1 7	......	78 0 10	1 5 3	141 7 8	......	......	......
Total to corresponding date of previous year	55,747	9,448 9 5	3,09,257 30	9,258 8 0	189 1 0	18,896 2 5	5,740	3,134	8,874

* Added No. of passengers 527 and Rs. 126 0 0 }
† Ditto Mds. 1,183 and deducted ,, 194 0 0 } on account of differences between the approximate and audited returns to week ended 30th March 1889.
‡ Ditto ,, 2 0 0 }

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,698	141	12	1,062	88	12	6,422	107	12	4,886	81	......	1,536

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,859	5,132 3 0	10,931 10	423 2 0	6 9 0	5,561 14 0	916	52	68
Or per mile of railway . ..	..	230 10 7	......	19 0 3	0 4 9	249 15 7	......	......	......
For previous 17 weeks of half-year	*396,303	*1,04,357 12 0	†1,63,109 10	†5,880 13 0	‡103 6 10	1,10,521 15 10	15,687	1,064	16,751
Total for 18 weeks ...	417,162	1,09,489 15 0	1,74,040 20	6,303 15 0	109 15 10	1,16,083 13 10	16,603	1,116	17,719
Comparison.									
Total for corresponding week of previous year	22,559	5,973 9 4	7,521 20	287 6 0	16 14 0	6,277 13 4	906	62	968
Per mile of railway corresponding week of previous year .	......	268 7 7	......	12 14 8	0 12 2	282 2 5	......	......	......
Total to corresponding date of previous year	413,380½	1,09,450 0 11	1,51,124 0	5,544 11 0	140 0 6	1,15,134 12 5	16,466	1,398	17,864

* Added No. of passengers 5,980 and Rs. 1,509 0 0 }
† Ditto Mds. 329 and ,, 11 0 0 } on account of differences between the approximate and audited returns to week ended 30th March 1889.
‡ Deducted ,, 7 0 0 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	6,278	283	22½	5,562	250	22½	39,281	353	22½	34,792	313	......	4,489

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th April 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,050	4,430 0 0	7,960 0	750 0 0	180 0 0	5,810 0 0	2,502	602	3,104
Or per mile of railway	163	51 0 0	93 0	9 0 0	2 0 0	62 0 0	......	......	... .
For previous 16 weeks of half-year	234,505	77,860 0 0	2,12,400 0	16,559 0 0	2,865 0 0	*97,284 0 0	38,350	10,460	48,810
Total for 17 weeks ...	248,555	82,290 0 0	2,20,360 0	17,309 0 0	2,995 0 0	1,02,594 0 0	40,852	11,062	51,914
Comparison									
Total for corresponding week of previous year . . .	12,707	4,166 0 0	a21,518 0	488 0 0	236 0 0	4,890 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year .	148	48 0 0	250 0	6 0 0	3 0 0	57 0 0	......	......	......
Total to corresponding date of previous year	241,647	73,069 0 0	2,11,510 0	14,920 0 0	3,059 0 0	91,948 0 0	42,313	10,495	52,808

* Audited up to week ending 16th March 1889.
a Includes 15,700 maunds for ballast trains.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,890	57	86	5,310	62	86	20,288	59	86	20,858	61	570	......

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 27th April 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,520	910 0 0	36,180 0	2,660 0 0	60 0 0	3,630 0 0	532	532	1,064
Or per mile of railway	66	24 0 0	952 0	70 0 0	2 0 0	96 0 0	... ..	......	.. .
For previous 16 weeks of half-year	43,870	17,804 0 0	4,16,370 0	28,121 0 0	3,133 0 0	*49,058 0 0	8,384	8,384	16,768
Total for 17 weeks ...	46,390	18,714 0 0	4,52,550 0	30,781 0 0	3,193 0 0	52,688 0 0	8,916	8,916	17,832
Comparison.									
Total for corresponding week of previous year	3,220	1,044 0 0	29,987 0	2,093 0 0	27 0 0	3,164 0 0	546	546	1,092
Per mile of railway corresponding period of previous year ...	83	27 0 0	769 0	54 0 0	......	81 0 0	......	......	......
Total to corresponding date of previous year	52,737	18,081 0 0	4,60,046 0	34,297 0 0	795 0 0	53,173 0 0	9,282	9,282	18,564

* Audited up to week ending 16th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 28th April 1888.			Receipts for week ending 27th April 1889.			Total receipts from 1st April 1888 to 28th April 1888.			Total receipts from 1st April 1889 to 27th April 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,164	81	38	3,630	96	39	12,826	82	38	11,997	79	......	829

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 4th May 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,702	911 0 0	7,680 0	565 0 0	8 0 0	1,484 0 0	509	254	763
Or per mile of railway	99	33 0 0	283 0	21 0 0	....	54 0 0	......	......	.....
For previous 16 weeks of half-year	57,218	21,343 0 0	1,93,620 0	11,622 0 0	1,058 0 0	34,023 0 0	8,508	7,757	16,265
Total for 17 weeks ...	59,920	22,254 0 0	2,01,300 0	12,187 0 0	1,066 0 0	35,507 0 0	9,017	8,011	17,028
COMPARISON.									
Total for corresponding week of previous year	3,231	1,207 0 0	9,616 0	585 0 0	17 0 0	1,809 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	119	44 0 0	353 0	21 0 0	1 0 0	66 0 0	......	.....	......
Total to corresponding date of previous year	59,025	21,734 0 0	2,88,098 0	16,147 0 0	376 0 0	38,257 0 0	9,162	8,264	17,426

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,809	66	27½	1,484	54	27½	9,230	68	27½	7,507	55	......	1,723

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 4th May 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	45,723	16,106 0 0	2,07,956 0	18,154 0 0	3,990 0 0	38,250 0 0	5,056	5,519	10,575
Or per mile of railway ..	167	59 0 0	762 0	66 0 0	3 0 0	128 0 0*	...	.. ...	... .
For previous 16 weeks of half-year	722,297	2,73,991 0 0	23,84,534 0	2,25,029 0 0	53,277 0 0	5,52,297 0 0	91,790	91,637	183,427
Total for 17 weeks ..	768,020	2,90,097 0 0	25,92,490 0	2,43,183 0 0	57,267 0 0	5,90,547 0 0	96,846	97,156	194,002
COMPARISON.									
Total for corresponding week of previous year on 269 miles open .. .	45,689	17,077 0 0	1,71,083 0	19,102 0 0	7,057 0 0	43,236 0 0	5,993	6,158	12,151
Per mile of railway corresponding week of previous year ..	176	66 0 0	661 0	74 0 0	15 0 0	155 0 0*	..	.....	....
Total to corresponding date of previous year	782,577	3,06,565 0 0	34,89,184 0	3,86,846 0 0	61,049 0 0	7,54,460 0 0	112,289	141,749	254,038

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	43,236	167	273	38,250	140	259	1,96,679	152	273	1,83,604	135	....	13,075

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 20th April 1889	11,104
Corresponding week last year	10,729
Increase	375
Receipts from 1st January to 20th April 1889	1,32,202
From 1st January to 21st April 1888	1,41,576
Decrease	9,374
	Miles.
Miles open week ending 20th April 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 20th April 1889	217 11 7
Corresponding week last year	210 5 10
Increase	7 5 9

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 27th April 1889	11,917
Corresponding week last year	12,449
Decrease	532
Receipts from 1st January to 27th April 1889	1,44,119
From 1st January to 28th April 1888	1,54,025
Decrease	9,906
	Miles.
Miles open week ending 27th April 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 27th April 1889	233 10 8
Corresponding week last year	244 1 6
Decrease	10 6 10

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 15th May 1889.

REGISTERED No. 29.

No. 21 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MAY 22, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal assembled for the purpose of making Laws and Regulations under the provisions, of the Act of Parliament 24 *and* 25 *Vic., cap.* 67.

THE Council met at the Council Chamber on Saturday, the 11th May, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SINGH BAHADUR.

PRIVATE FISHERIES BILL.

The HON'BLE SIR CHARLES PAUL presented the report of the Select Committee on the Bill for the protection of the right of fishing in private waters,

and moved that the report be taken into consideration in order to the settlement of the clauses of the Bill.

The Motion was put and agreed to.

The Hon'ble Sir Charles Paul also moved that the clauses of the Bill be considered in the form recommended by the Select Committee.

The Motion was put and agreed to.

The Hon'ble Sir Charles Paul also moved that in line 17 of section 3, after the word 'imprisonment' the words 'which may be simple or rigorous' be inserted. He said:—"I find that the Act for shortening the language of Acts of the Bengal Council does not, as the analogous Act of the Viceroy's Council does, define the word 'imprisonment;' it is therefore necessary to add the words 'simple or rigorous' after 'imprisonment.'"

The Motion was put and agreed to.

The Hon'ble Sir Charles Paul also moved that in clauses 1 and 2 of section 4, for the words 'obstruction or' the word 'fixed' be substituted. He said:—"As the section stands it is not very grammatical; the amendment would include everything that is required."

The Motion was put and agreed to.

The Hon'ble Dr. Rash Behary Ghose moved that for clause (2) of section 3, the following proviso be substituted:—'Provided that nothing herein contained shall apply to acts done by any person in the exercise of a *bonâ fide* claim of right, or shall prevent any person from angling with a rod and line, or with a line only, in any portion of a navigable river.'

He said:—"The amendment which stands in my name consists of two parts. The second part, which makes a concession in favour of the disciples of Isaac Walton, comes before the Council with the recommendation of the Select Committee in favour of it. I need not, therefore, say anything as regards this part of the amendment, except that, as we all know, the gentle art is practised more frequently for sport than for gain, and that at any rate by confining the right to navigable rivers we shall be well within the maxim *de minimis non curat lex*. As regards that part of the amendment which says that 'nothing contained in the Act shall apply to acts done in the *bonâ fide* exercise of a claim of right,' it will be enough to remind hon'ble members that it only formulates a well-known maxim—I had almost said axiom—in Criminal Jurisprudence: 'There can be no offence, no crime, unless there is a guilty mind.' I will only refer to a well-known text-book on this subject—Maxwell on the construction of Statutes—in which the result of the authorities is thus stated:—'*Mens rea*, or a guilty mind is, with few exceptions, an essential element in 'constituting a breach of the criminal law; a statute, however comprehensive 'and unqualified it be in its language, is usually understood as silently requir-'ing that this element should be imported into it, unless a contrary intention be 'expressed.' It may be said—indeed it has actually been said—that the effect of introducing this proviso will be to render the whole law a dead-letter, which would therefore only cumber the Statute Book, without ever having any practical operation. Now those who raise this objection seem to forget that a *bonâ fide* claim of right is not the same thing as a mere pretence set up simply for the purpose of avoiding the jurisdiction of the Magistrate. A *bonâ fide* claim must rest on fairly reasonable grounds; and although a man may not, if I may use the expression, have, in respect of a particular act, a guilty conscience, and therefore in one sense may be said not to have acted dishonestly, yet he would not succeed on a plea of *bonâ fide* claim of right, unless he could show that the conclusion at which he had arrived was based on reasonable grounds. Then, again, it seems to me that those who take exception to this amendment forget that there is substantially the same limitation in the definition of theft in the Indian Penal Code; and yet I think it will be allowed by everybody that the Indian Penal Code has not been a dead-letter. It is worthy of notice that those who are opposed to the amendment seem to think, or certainly at one time thought, that acts made punishable under this Bill were punishable under the Indian Penal Code. But it is clear that a person who acted in the exercise of a *bonâ fide* claim of right could not have been convicted under

the Penal Code; and certainly the owners of private fisheries in public rivers are not entitled to a larger measure of protection than the owner of a fishery in a tank or other enclosed piece of water. There may possibly be a distinction between fish confined in a tank and fish in a river, but the distinction, if there is one, is certainly not in favour of a larger measure of protection being given to the owners of fisheries in rivers, or in waters where the fish are neither reared nor preserved by the owners of the fisheries. Difficult questions of law are, moreover, sure to arise. I may here refer to an instance which came a few years ago within my experience. An action was brought by a well-known landowner in the district of Rungpur to restrain certain tenants of his from fishing in a *bheel*: the tenants set up an immemorial custom under which they and their forefathers before them for several generations had been in the habit of fishing in the lake on a particular day in the year. The case was heard by a Subordinate Judge of considerable experience, and he came to the conclusion that the tenants were entitled to exercise the right set up by them. The action was heard in appeal by a District Judge, also of considerable experience, and he too came to the same conclusion. In appeal, however, to the High Court both these judgments were set aside on the ground that the right set up by the tenants was not recognised by the English law, and that there was no reason why the Courts in this country should refuse to follow the English law on the point. Now, if the amendment I propose is not carried, the result will be this. These men, who thought they were not doing anything wrong in exercising the right of fishing, and who might well be pardoned for thinking so, seeing that the Subordinate Judge and the District Judge were also of that opinion, would be punishable as criminals. I submit that it ought not to be so: and that, as soon as the Magistrate is satisfied that there are reasonable grounds for the claim set up, he ought to hold his hands and leave the matter to be decided by the ordinary civil tribunals. Another objection has been suggested to the amendment which I will notice, and that is this—that it is not necessary to have an amendment of this kind, because no Criminal Court will punish a man who made out a *bonâ fide* claim of right. I will only say in answer to this objection that it only shows that the amendment, although sound in principle, is superfluous and unnecessary. But I think that, although no doubt in olden times the Judges used to take a great deal of liberty with Acts of Parliament, when the art of draftsmanship was in a rudimentary state, it would now be a very strong thing for a Judge or Magistrate to say that, although an Act says that a man who without being legally entitled to fish in certain waters, fished in them, is liable to punishment, he must not be punished because we must not impute to the Legislature an intention to punish *bonâ fide* mistakes. I think that, when we have a written law, the whole of the law ought to be contained in the Statute, and that no one should be allowed to set at naught the intention of the Legislature by referring to some unwritten rule of construction drawn from books of reports extending, at least in England, over more than five hundred years, not to say anything of the perplexity occasionally caused by conflicting decisions. With these observations I move the amendment which stands in my name."

The HON'BLE MR. ALLEN said:—"It appears to me that this question is simply one of practical bearing. The Bill is a Bill for the protection of the right of fishing in private waters, and I suppose the hon'ble member will not pretend that his amendment is likely to assist in the protecting private rights of fishery. It is rather in derogation of the general objects of the Act itself. It comes in at the tail of section 3 of the Bill, the first clause of which says—'Any person who fishes in any private waters, not having a right to fish therein shall be guilty of an offence'; and then comes the amendment, which says that 'nothing herein contained shall apply to acts done by any person in the exercise of a *bonâ fide* claim of right.' It seems to me that the amendment takes away very materially from the effect of the first clause, which protects rights of fisheries in private waters, by making it a criminal act to fish without a right; but the hon'ble member says that it is to be no offence if only you put forward what you imagine to be a *bonâ fide* claim of right. There is no word which is probably used more often *mala fide* than that expression *bonâ fide*. It generally represents the view an individual takes of what is for his own interest. As a protection for those who have *bonâ fide*

rights, I think the amendment is perfectly unnecessary. It is a principle underlying all criminal jurisprudence that, where there is a *bonâ fide* claim of right, the jurisdiction of the Criminal Courts is ousted. But the introduction of this amendment into the Bill is likely to have, not a *bonâ fide* effect, but on the contrary is likely to afford additional excuses for Magistrates to throw off their own hands, work which must form an exceedingly disagreeable duty. Nothing can be more troublesome than these questions of criminal trespass, and such like, where the contending parties are disputing about interests in land or water. It is not the case that Magistrates are eager to grasp at jurisdiction improperly. As the result of my experience, I should say Magistrates are only too ready to refer parties on any possible pretence to the Civil Court. The real object of this Bill is to provide a speedy and inexpensive mode of obtaining redress against a class of people against whom civil suits are practically valueless. Those who fish without possessing a right are not people of substance—zemindars or others: on the contrary, they are nocturnal wanderers, *machwars*, and the like, who for the most part make their livelihood by such forms of trespass, and it is necessary that there should be a speedy means of redress, and what is the redress given? It is a fine of Rs. 50—call it, not a fine but damages; and what is there to object to? The Magistrate is just as likely to do justice in such cases as a Munsif, and more so, because he is not trammelled by a Code containing over six hundred sections to guide his procedure. Therefore it appears to me that, as a protection of *bonâ fide* rights, this amendment is not necessary. Claims of right are already recognised, but the introduction of this amendment may have the effect of neutralising the whole Act."

The HON'BLE MR. NOLAN said:—"Mr. President, the hon'ble member who moved this amendment did so in a speech so full and lucid that it is quite unnecessary that I should attempt to give him the support which, as the only person who acted with him on the Select Committee, I feel bound to afford, otherwise than by removing any misapprehension as to the facts of the case which may have been created by the last speaker. As that speaker remarked, this is a practical question, and in dealing with such questions it is above all things desirable that we should clearly understand the facts. The hon'ble member has informed us that the persons who will be prosecuted under this Bill are nocturnal wanderers, who make a livelihood by poaching on fisheries belonging to others; and if this were a correct statement, little importance would attach to the amendment. It will not, as the hon'ble member seems to suppose, enable such wanderers to escape the consequences of their trespass, for under it they will be required, not merely to set up a colourable title, such as the jealousy of the law has made a sufficient defence in England, but to establish to the satisfaction of the Magistrate that they have a *bonâ fide* claim to the fishery, the burden of proof will rest on their shoulders, and, poor poachers as they are, they will be altogether unable to make out a right to the satisfaction of a Court. In regard to them, if any such men there be, the amendment can do neither harm nor good; to their circumstances it is simply irrelevant. But the papers showing the origin of the Bill contain no reference to such wanderers, and the decided cases regard a class of persons altogether different. The whole bearing of the Bill, and the importance attributed to this amendment, will be misunderstood unless we turn our attention from casual trespasses to concentrate it on the disputes which everywhere exist as to the rights of fishery exercised in Bengal. In illustration of these rights I may refer to the great Chandpore Julhan in Tipperah, as to which Government has recorded a Resolution:—

'The Sudder Court, in a decision of September 1859, pronounced that the best right made out to this julkar (which is there described as not 'above the ebbing and flowing of the tide,' and as 'an arm of the sea,') was that of the public. In the face of this decision it is impossible for the Government to make over the fishery to any individuals to the exclusion of the public generally. The Government is now bound to do all in its power to throw open the fishery as a common right to the public, and to take care, as the guardian of the public interests, that it is not monopolised by any single individual or party.'

"This is no isolated instance of the existence of public rights in important fisheries, over which individuals desire to establish a monopoly. The most valuable fisheries in Bengal are those in tidal rivers, and it has always been the policy of Government to keep these open, free of any rent or revenue, for the

common use of all. Claims to a monopoly have, indeed, been advanced from time to time by the owners of neighbouring estates, but these are generally regarded as invalid, and are not enforced in practice. Leaving the great rivers, to consider the state of things on our principal lakes, I find that, in the opinion of the local officers, no monopoly of fishing rights has ever been granted in the well-known Chilka inland water, the largest and most valuable of the province. In the open waters of that lake the fishing is in practice free, while in the creeks and inlets exclusive rights are claimed, but disputed, so that there has been much friction, and no little litigation. As to the minor pools, I will read an extract from a letter which I received yesterday from a manager in charge, on behalf of the Court of Wards, of the largest estate in Bengal, a public servant of unrivalled experience:—

'Judging from my knowledge gathered from an intimate acquaintance with the districts of Purneah, Dinagepur, Maldah, Bhagulpur and Rajshahye, I can say that a very well-defined customary right to fish in *jheels* and other pieces of private waters does exist which every villager is cognisant of, and has exercised hitherto without let or hindrance year by year. The custom I allude to is that, which permits any villager residing within the mouzah in which a *jheel* may be situate to fish in that particular *jheel* between the date of the *Holi* festival and the date when the first flow of new water from the river enters the *jheel*. This right, whether it be one enforceable by the law or not, is probably older than the times in which the zemindar was created and became the possessor of the land; and might in point of antiquity and uninterrupted user be fitly compared with the rights of common, and similar privileges, preserved by law to the poorer inhabitants of a parish in England.'

"But the evidence most appropriate to the present occasion is that afforded by the abstract of decided cases laid before this Council when the Bill was introduced. In the first of these cases the prosecutor could not prove that he had proprietory rights; the second regarded what is described as a *disputed* fishery; to the third, which runs as follows, I would draw your special attention:—

'A and B asserted their prescriptive right to fish in a lake free of rent, and C had failed to establish the relationship of landlord and tenant in a suit brought by him under Act X of 1859 to get rent from them.

'Glover J. held that to convict A and others under section 441 of the Penal Code, it must be shown that they entered upon property in the possession of C with intent to commit an offence. The element of intention was wanting. A and others asserted, and had all along asserted, a prescriptive right to fish in the lake without the payment of rent. Considering that they had vindicated their claims and had a right to fish as they had done before, and that they were acting *bonâ fide*, and not exceeding their supposed privileges, C's notice, warning them not to fish, did not change the state of affairs so far as section 441 was concerned, and that therefore there could be no conviction for criminal trespass.'

"I might cite other cases from the abstract, but it is enough to add that none of them contain any reference to trespass by mere wanderers, and that, taken as a whole, they establish with perfect clearness the fact that this Bill owes its origin to prosecutions in many of which the alleged proprietor of the fishery could show no right to the monopoly he claimed, and the alleged thief or trespasser was an honest fishermen plying his trade openly, and in good faith, in waters where he had, or believed that he had, a legal title to fish.

"It is with reference to these facts that the amendment has been framed, for the protection of fishermen exercising genuine rights, against persons attempting to establish a monopoly without a title, or on a doubtful title. And, the circumstances once understood, I am in a position to give an assured reply to the assertion of the hon'ble member on my right (Mr. Allen) that the adoption of the present proposal is not consistent with the principle of a Bill for the protection of rights in fisheries. On the contrary, the amendment is necessary if such rights, in their most useful form, that is to say, when appertaining to the actual fishermen, are to be protected from usurpation and encroachment. It is by no means fair to such men that they should be compelled to defend their ancient privileges from the dock, before courts accustomed to deal only with alleged criminals. I cannot for a moment believe that this Council will subscribe to the opinion of the hon'ble member, that such Magistrates will decide better as to complicated questions as to the existence of a monopoly in open waters, or of easements over private waters because exempted from the operation of the Civil Procedure Code, which has been framed in all its details so as to provide adequate safeguards for the due examination of all causes.

"The hon'ble member states it, as a general principle of all law, that a person acting *bonâ fide* cannot be subject to penal consequences; and he considers that the magisterial courts of this province are inclined to push this doctrine to extremes. These statements are relevant only if we are prepared to say that the principle in question is so universally accepted that any special provision in penal laws to make it clear that the acts for which they provide punishment must be committed wilfully, maliciously, or dishonestly, is unnecessary and superfluous. Now that, Sir, is a view opposed to all approved practice in drafting laws, whether for England or for India. For instance, the English statute on this subject limits the offence to those who fish *unlawfully and wilfully*; the Indian law now applicable to stealing fish from tanks provides that the act must be committed *dishonestly*, and proceeds to explain that this means, with the intention of causing wrongful loss or wrongful gain. Are we to override precedent by providing a punishment for the mere deed, without reference to the intention, without any statutory safeguard for the protection of those who act in good faith? It is true that if we do so the highest court of the province may eventually supply the deficiency, reading the general principles which should have guided us in legislation into the curt provision of the Bill as it stands, that 'any person who fishes in any private water not having a right to fish therein shall be guilty of an offence.' But we would abandon our proper functions were we to trust the exemption of the innocent from penalties of our own creation to such a contingency. It is our plain duty in this matter to say what we mean, and if we desire that the amendment shall in fact be operative, to pass it as part of the law. That all Magistrates, of all classes, are unduly disposed to acquit persons accused of such offences is a proposition startling from its novelty. I will ask the Council to decide it, not on my experience, or on that of the hon'ble member, but on the evidence of the cases in the summary before them, which is little more than the account of a series of improper convictions.

"In conclusion, I must express a hope that the hon'ble and learned member in charge of this Bill (with which my connection is that only of a member of this Council) will be able to accept the amendment, which is identical with a recommendation which he himself made to Government at an early stage in the preparation of this measure. The law passed will then be useful, as affording protection to real proprietors against wilful trespassers, without giving to those desirous of establishing a monopoly of the right of fishing in public waters a weapon for attack on industrious fishermen exercising their rights, according to law and immemorial custom."

The HON'BLE SIR HENRY HARRISON said:—"I must say I entirely concur with the learned Legal Remembrancer that this amendment will go very far, if not entirely, to neutralise the effect of the law, and that the arguments which were chiefly used in support of it, if carefully analysed, are more or less wide of the mark. The very first argument which the hon'ble member opposite (Mr. Nolan) adduced showed that, in the large rivers of Bengal, there was a right of fishing; but it did not need a provision of this kind to give the fullest possible security to those who chose to exercise it. 'Private fishery' is defined in the Bill to mean private waters in which any person has an exclusive right of fishery, and in which fish are not confined; but have means of ingress or egress. Consequently, if there is any possible question whether there is a right of fishing, it is perfectly plain that the prosecution must prove completely that there is an exclusive right of fishery. So far as such claims exist, they will have the amplest means of asserting themselves. Then as regards the injustice of criminally punishing a person who acts *bonâ fide*, it can hardly be said that under this Bill a man will be punished criminally in any real sense of the word. The object is only to give fair protection to rights which exist. The person punished is not really in danger of being sent to jail, merely because under a *bonâ fide* error he is infringing another man's right. If a person does make a mistake of that kind, possibly it might seem a very dangerous doctrine, but it seemed to the speaker that no great moral wrong would be done if he were fined a rupee for his mistake. The last and most important point is this:—It is said that the Magistrates look on this plea of *bonâ fides* with very great suspicion. That was not his experience, and a case which occurred in Calcutta would go far to illustrate this. No one in Calcutta

is authorised to carry on a market without a license, except in the case of the older markets which require only to be registered. The owner of a market having a quarrel with a neighbour, thought he would annoy his friend by removing the fish stalls in his market, and placing them directly to the south of his friend's house, and giving him the benefit of all the stench from the fish; and he did so. On this the person thus injured brought the matter before the Commissioners, and on looking up the market license it was clearly seen that the fish stalls were to be in another place; so the license was withheld until the fish stalls were brought back to the place where they were originally intended to be. The owner of the market refused to remove the fish stalls, and the first time the municipality prosecuted for holding a market without a license, the defender got off on the plea that he had his municipal license-tax. As the offence continued, the Commissioners again prosecuted, drawing attention to the legal objection which they knew was invalid, and asked for a summons, so as to have the point of law determined. The summons was granted by the Stipendiary Magistrate, who overruled the objection, and the hearing was again before the Honorary Magistrates. The case ran a marvellous course, and though the simplest possible, it was postponed from week to week. At last, in a moment of inspiration, it struck the market-owner's pleader to urge that his client had throughout acted *bonâ fide*—a plea which was instantly accepted, and the case dismissed."

The HON'BLE MR. MOORE said—"I believe I am the only person present who signed the original memorial to your Honour, which is the origin of the production of this Bill. I am not personally interested in the question, but acted on behalf of a gentleman who is largely interested in julkur rights, and I therefore wish generally to express my view without entering into special arguments. The memorialists prayed for legislation to make criminal this offence against private rights, which the existing law failed to do. This Bill was drawn, and it was a sound and healthy one as originally submitted to us. But the creators of it have since apparently got frightened at what their healthy young infant may propagate, and now deliberately propose to submit it to a process of emasculation. Now, I object to this altogether. I cannot follow the mover of the amendment in his sentimental pleas not to prosecute certain offenders criminally, and it seems to me he makes them a direct invitation to weave pretty little romances to condone their offences. I wish to preserve for this Bill its pristine vigour, and I therefore intend to vote against the amendment, and I sincerely hope it will be lost."

The HON'BLE SIR CHARLES PAUL said—"I think there is some misconception as to the effect of this section. The last speaker seemed to think that the introduction of this section would altogether emasculate the Bill. By that I understand him to mean that in every case there will be a plea of *bonâ fide* claim set up, and that the plea is sure to succeed. If that should be the result of the amendment, we should stultify ourselves, if we accepted it. But it is quite obvious that that cannot be the case. In the case of the marauders referred to by the Hon'ble Mr. Allen, they would not have the effrontery to come before the Court with a *bonâ fide* claim of right. The question, however, is not altogether free from difficulty. The section says—'Any person who fishes in any private waters, not having a right to fish therein.' That requires the Magistrate to try and punish as an offence what is essentially a civil matter. That being so, if the Magistrate were capable by learning and experience to decide a difficult question of right, and his decision when appealed against and upheld by the High Court resulted in finality, I should be free to admit that the Bill should be allowed to stand without amendment. But unfortunately there can be no such finality, because either party will be able to re-agitate the same matter in the Civil Court. The Magistrate might thus try a case, and his decision might be confirmed in appeal, and yet the whole matter might be taken up to the Civil Court. Therefore when a case is brought which clearly shows that a man has a right which he may fairly put forward in a civil suit, it seems necessary and just that it should not proceed further in a Magistrate's Court. In order to make my observations clear, I shall give an illustration to show that there may be cases the Magistrate should not try. Suppose in a navigable river X has a right to

fish from point A to point B, and Y has a right to fish from B to C, and the question arises from where the line from B is to be drawn. X says it should be drawn from a certain point; Y says it should be drawn from a certain other point; and thus a boundary dispute arises. The Magistrate would then have to try a boundary dispute. It would not, in my opinion, be proper for the Magistrate to have to try a boundary dispute of that sort, and it would be unjust to the man who produces fifty witnesses to say that he has always regarded the particular place as within his boundary, that he should be punished by the Magistrate for fishing within that boundary. It cannot be an offence to do on one particular day what a man has done for twenty-five years in the *bonâ fide* belief that he had the right to do so. I think the arguments in favour of the amendment are so strong, and have been so lucidly and ably stated by the hon'ble mover of the amendment, that anything I might say might rather detract from their force than add to them. I therefore support the amendment."

The HON'BLE DR. RASH BEHARY GHOSE said in reply:—"It was said by the learned member who spoke first in opposition to my amendment that this was a Bill for the protection of private fisheries, and an amendment like this cannot therefore have any place in the present Bill. Now, the Indian Penal Code, I take it, is a Code enacted for the protection, amongst other things, of rights of private property. That Code says that if you take property from another it is theft; but it also says that it is not theft if you take it *bonâ fide* in the honest belief that you are entitled to it. Then it was said that the offence dealt with by this Bill may be called a crime; but what is the penalty?—only a paltry fine of Rs. 50. That may be a paltry amount to some of us: but we have been told that the people against whom the Bill is directed are poor, and that it will be impossible to recover any damages from them. That may be their misfortune: but I think a fine of Rs. 50 on a poor man means imprisonment in default of payment of the fine. I take it therefore that the punishment is a substantial punishment. Then it is said—Oh! but everybody will plead *bonâ fides*. It is not, however, what everybody may choose to plead, or even what everybody believes, that will decide the fate of the prosecution. The fate of the prosecution will be determined by the judgment of the Magistrate on the question whether there are, or there are not, reasonable grounds for the claim which has been set up; and I take it that in passing a law like this, and arming the Magistrate with authority to punish the offender under this Act, we ought to proceed on the assumption that the gentlemen who will be called upon to exercise such authority are fairly competent for the discharge of their duties. Then the last argument of the hon'ble member seems to me altogether to destroy the force of what he had previously said. He said the administration of criminal justice proceeds upon the assumption that a man is not a criminal if he acted in good faith, or in the belief that he was entitled to do what he is charged with having unlawfully done. If that is so, where is the harm of putting in this clause in the statute itself? One may admire codification with its beautiful simplicity; one may also admire case-law with its remarkable elasticity, but I do submit that one cannot feel much admiration for a hybrid amalgamation of code law and case law where you have to find out the law, not from the statute itself, but partly from the statute and partly from the reported and unreported utterances of English and Indian Judges. That is a principle which I do submit is certainly not desirable. Then, again, something was said by the other hon'ble members who spoke—at least by one hon'ble member, so far as I remember—as to my objection being purely of a sentimental character. I submit that it is not so: and even if it were, the hon'ble member seems to forget that the administration of the criminal law is founded on the rules of morality, and ought not to be in habitual conflict with the general moral sentiments of the people. It has been said that you cannot make the squire and the labourer take the same view of the offence of poaching: and I think there may very well be a distinction between fish confined in a pond and fish enjoying their natural liberty in navigable rivers—at least in minds not trained to the appreciation of subtle or hidden analogies. We all know what Sydney Smith said of the difference between poultry and partridges: the difference certainly is not less marked here. I admit there is a right of property in unconfined fish: the Bill acknowledges it and protects it; but I submit it would be

going too far if you were to punish those who, as one hon'ble member stated to the Council, had been in the habit of enjoying customary rights for generations, in happy ignorance of Gateward's case; the practical result, as those who have any experience of Indian litigants and their ways are well aware, would be simply to deter these people from exercising their ancient rights. Let it be fought out in the proper court, if it has to be fought out at all, namely, the civil court, but the terrors of the criminal law must not be called in aid to deter these people, humble and poor, and generally without the means of defending themselves properly, from exercising their rights until the civil court shall have pronounced its decision."

The Motion being put, the Council divided:—

Ayes 6.	*Noes* 5.
The Hon'ble Dr. Rash Behary Ghose.	The Hon'ble Raja Rameshwar Singh, Bahadur.
The Hon'ble Shahzada Mahommed Furrokh Shah.	The Hon'ble C. H. Moore.
The Hon'ble Dr. Mahendra Lal Sircar.	The Hon'ble Sir Alfred Croft.
The Hon'ble P. Nolan.	The Hon'ble Sir Henry Harrison.
The Hon'ble Sir Charles Paul.	The Hon'ble T. T. Allen.
His Honour the President.	

So the Motion was carried.

MUHAMMADAN BURIAL BOARD'S BILL.

The HON'BLE SIR HENRY HARRISON presented the report of the Select Committee on the Bill to provide for the appointment of a Muhammadan Burial Board in Calcutta, and moved that the report be taken into consideration in order to the settlement of the clauses of the Bill.

The HON'BLE MR. ALLEN said—" Hon'ble members will be aware that I declined to sign this report, and the ground on which I did so was purely one of order. It appeared to me that the hon'ble member in charge of the Bill had induced the Committee to violate the standing rules which regulate the conduct of business in this Council, and it would be highly improper to allow such violation to pass unnoticed. The first rule on the subject of legislation is, that no Bill can be brought into Council without the leave of the Council asked on motion and obtained, and after the leave is obtained, and at the time of introducing it, the member in charge of the Bill is to submit a full statement of the objects and reasons of the Bill. Subsequently the Bill, so accompanied, is made over to the Select Committee to report, and one rule says that it shall be the duty of the Committee to revise the Bill, clause by clause, and to recommend any amendments therein that may to them seem advisable. There is no authority given to the Select Committee to go beyond the purport of the Bill which the Council has submitted to it for report, and it is only so far as the Bill that has been submitted to the Committee goes that the Committee are justified in making changes. To add to the Bill substantially, to introduce objects which are not covered by the Bill as introduced to the Council and as submitted to the Committee for report, is, I contend, entirely beyond the functions of the Select Committee. Now, applying this principle to the present case, the Bill which the hon'ble member applied for leave to introduce into the Council was simply a Bill to provide a Muhammadan Burial Board for Calcutta. That was the Bill which was made over to the Select Committee for report, and it was only in respect of that Bill, and within the scope of that Bill, that the Committee had any functions whatever. But the hon'ble member in charge induced the Committee to make a substantial addition to the Muhammadan Burial Board. He has induced the Committee to add a section to the Bill which calls into existence a second Board, of which no mention was made when he asked leave to introduce the Bill, or in the Statement of Objects and Reasons which accompanied the Bill. This new Board is not the fag end of the Muhammadan Board after the Muhammadan members have withdrawn, in which case it might have been held covered by the Bill as introduced, but is to have a legislative existence independent altogether of the previous part of the Bill. It is to exist under the terms of the last section which has been added

to the Bill. This Burial Board has no name, and the wording has been most ingeniously arranged, so as to conceal the significance of the addition to a large extent, so that one might suppose that it was a sort of emanation from the Bill as it was referred to the Select Committee. But it is in fact an entirely new Board which the Lieutenant Governor may charge with functions outside those of the Muhammadan Burial Board. This second Board is to have quite as independent a legal existence as the Muhammadan Burial Board. No name has been given to it, but I suppose it ought to be called the Baishnaba Burial Board, because those are for the most part the Hindus who would be affected by it. I submit that the Select Committee had no authority to create a Baishnaba Burial Board; they got no authority from the Council to do so, and there has been no proper opportunity for those who are interested in the measure to consider it. But as to the substance of the addition to the Bill I don't speak at present. I simply contend that the Committee are not at liberty to add in any way substantially to the purport of the Bill committed to them. These are the reasons which have led me to decline to sign the report of the Select Committee, and it is for the Council to consider whether it will consent to have its rules of business set at naught by any member who may be in charge of a Bill, or whether it will insist that the hon'ble member shall master his facts and fix in his mind beforehand the whole scope and objects of the Bill before he comes to this Council for leave to introduce it, and not allow deficiency in scope to be patched up in the Select Committee. I submit that when rules for the conduct of business have been passed a rigid adherence to those rules should be observed. I think this is a case in which we should be careful to prevent the introduction of the thin edge of the wedge, although I must say that this is a case in which the hon'ble member has not attempted so much to introduce the thin edge as the broad edge."

The HON'BLE THE PRESIDENT said:—"It may help matters, and at all events influence the course of the debate, if I put before you one or two considerations which occur to me. I don't think it necessary at the present stage to go into the substantive question. We have heard the brilliant attack which the Hon'ble the Legal Remembrancer has made on the mover of this Bill, and we cannot help recognising his eagerness to uphold to the strictest letter, the rules of the Council. But I am bound to add that he has not ended with any substantive motion; he has not proposed as an amendment that we should not proceed with the Bill, and has not given any assistance whatever towards the decision of the question, what we shall do next. Suppose the hon'ble member's view is correct, that the Committee has behaved very improperly, there were no pains and penalties provided for them, and the Council, so far as he is concerned, will simply be at a dead lock. Therefore what I have to say is, that in discussing the motion that the report of the Select Committee be considered, I shall be much obliged if those members of the Council who take the same view as the Hon'ble the Legal Remembrancer of the impropriety of the Committee's conduct will indicate the course with reference to the progress of the Bill which they wish to see adopted."

The HON'BLE DR. RASH BEHARI GHOSE said—"I find that rule 5 provides that when the report of the Select Committee is taken into consideration it may be moved that the clauses of the Bill be considered for settlement in the form recommended by the Committee.

"The course therefore for the hon'ble member in charge of the Bill will be to move that clauses of the Bill be considered for settlement in the form recommended by the Select Committee, and if that motion is made and not affirmed, then the clauses must be considered for settlement as they stood when the Bill was read in Council."

The HON'BLE SIR HENRY HARRISON said:—"The motion before the meeting was that the report of the Select Committee be taken into consideration. Until that was affirmed he could not go on with the next motion. He had nothing further to say except this, that the Hon'ble the Legal Remembrancer was put upon the Select Committee in order that they might have the benefit of his advice, and he thought that instead of absenting himself from the last Committee meeting, he might have remained and pointed the objections he had now taken.

Instead of doing so, he muttered something about breaking the rules and left the room. Substantially the Committee had made no change at all; substantially the Bill provides a machinery for the better management of these public Muhammadan cemeteries in which at present there were no means of looking after interments. Portions of these Muhammadan cemeteries, in some cases by express arrangement in the most formal manner possible, in other cases by custom, were set apart for Hindus. It was understood when bringing in the Bill that a Muhammadan Burial Board would have looked after all these interments, and there was no reason to apprehend that they would have any objection, nor that the Vaishnavs, who bury their dead in these cemeteries, would put forward any objection. But the Committee were informed on very good authority, by one of their own colleagues, that a Muhammadan Burial Board would object to be charged with that duty, and we were therefore placed in a difficulty. There were certain pieces of ground quite as insanitary as those for the burial of Muhammadans which were set apart for Vaishnavs and other castes, and a Muhammadan Burial Board refusing to take charge of them. What was to be done? Was the difficulty to be shirked? The Committee thought it best to separate those pieces of ground from the Schedule, and let the official members of the Board take charge of them. Whether in so doing they had technically exceeded their power or not, it would be difficult to show any better or simpler escape from the dilemma."

The HON'BLE DR. MAHENDRA LAL SIRCAR said:—"The Bill, it must be admitted, as it has been amended by the Select Committee, is a different Bill from that which had been originally introduced, and on that ground the Hon'ble the Legal Remembrancer objected to it. I thought at the time that a change in the title of the Bill would meet his objection, and accordingly a change in the title has been made by the Committee. I now beg to submit that a change in the short title of the Act might satisfy the hon'ble member; I would, therefore, suggest that instead of calling it 'the Mahomedan Burial Boards Act,' it might be called 'The Non-Christian Burial Boards Act.'"

The HON'BLE MR. ALLEN said:—"May I, Sir, be allowed to offer an explanation. I have not been able to hear what he said for myself, but from my neighbour, the member on my left, I understand the hon'ble member in charge of the Bill has said that the Select Committee had fallen into the dilemma because I had not attended the meeting of the Committee. I wish to inform the Council that I was present at the meeting of the Committee which was formally called, and when I found the hon'ble member throwing out feelers in the direction he has subsequently worked, I distinctly pulled him up several times, pointing out that the Bill was a Bill for the appointment of a Muhammadan Burial Board and nothing more. After the last meeting of the Council, and without any formal notice, I was informed that the hon'ble member wished to take further measures in that direction, and I distinctly told the hon'ble member who has just spoken that the thing could not be done. The hon'ble member opposite, who specially represents the Muhammadans, was sitting next to the hon'ble member in charge of the Bill, and I pointed out to them both distinctly that the Bill was a Bill for a Muhammadan Burial Board and nothing more; that if he had contemplated the introduction of a section such as that which had been added to the Bill, he should have introduced a Bill for a Muhammadan and Chamar Burial Board. I repeatedly pressed it upon him that he could not proceed in that way, and I pointed out to him that the only way open to him was either to give up this additional and independent Burial Board or to introduce a supplementary Bill for the purpose: so that, in fact, there was no want of pressing my views on the Committee, and the blunder, if a blunder it be, which the hon'ble member has fallen into, is a blunder into which he has deliberately and consciously fallen."

The HON'BLE SIR HENRY HARRISON said: —"His memory differed materially as regards the Hon'ble Legal Remembrancer's action. He, no doubt, showed great unwillingness to consider the amendments, but his objections, instead of being clear and definite, and referring to rule and chapter as to-day, were enigmatical and curt in the extreme. Why could he not stay five minutes and explain himself as he had done to-day? Certainly no specific rules of the Council were ever referred to by him in the Select Committee."

The HON'BLE SIR CHARLES PAUL said—"It strikes me that what has occurred is the result of that which has come to light in the course of investigation. I do not think that if the hon'ble member in charge of the Bill had anticipated the difficulty which has arisen, he would not have provided for it in the Bill which he introduced: But in the course of the discussions which took place in Committee it turned out that a Muhammadan Burial Board would not deal with that portion of a Muhammadan burial ground in which Hindus were buried, and that being so, there was a difficulty to be met, and the member in charge of the Bill dealt with that difficulty, and the outcome has been the insertion of clauses (sections 6 and 14) which, I must say, contain something beyond what was contained in the Bill as it was introduced, as not only are certain burial grounds excluded from the Schedule, but new matter introduced into the Bill. I think the Hon'ble Sir Henry Harrison should now ask leave to introduce a Bill with those additional clauses, that the rules should be suspended, and that the Bill should then be read in Council and referred to the Select Committee at once and reported upon next week. It would involve a week's delay if the objection is persevered in."

The HON'BLE SIR ALFRED CROFT said:—"The Statement of Objects and Reasons which accompanied this Bill referred, of course, to Muhammadan burial grounds chiefly, but the actual wording is—'cemeteries and burial grounds in the neighbourhood of Calcutta which have hitherto been under no adequate control or supervision.' This especially applies to the public cemeteries in which large numbers are annually interred. If, then, you raise the mere formal question whether the inclusion of a new section and an addition to the title are consistent with the directions given to the Select Committee, I doubt whether there is anything in the Statement of Objects and Reasons which is opposed to that view. But, passing beyond the question of form to the merits of the case, I would point out that the Select Committee had to make a report. In what terms was that report to be couched? It was elicited in the course of the discussions in Committee that for years past certain portions of the Muhammadan burial grounds had been used for the burial of other persons, and we were informed that a kind of prescriptive right had been established. It was impossible to ignore facts of this kind, and the Committee had to provide in the best way they could for the new circumstances they found to exist. They could only do so by a material alteration in the form of the Bill. But it also seems to me that the action of the Select Committee involves the Council in no difficulty. The case is fully met by clause (8) of Rule XV, which provides that, 'if after settlement of the clauses the Bill differs materially upon any important point from the form in which it was read in Council and published, it may be again published as amended, and reconsidered after such time as the Council may order.' As it appears to me that there has been a substantial change in the Bill, that, I think, should be the course which should be adopted."

The HON'BLE THE PRESIDENT said:—"I take it that the error in form which has been pointed out is one which the Council are perfectly able to condone if they like, and that there is no kind of objection, if we think fit, to our taking the Bill into consideration in the form in which the Select Committee has submitted it. I quite agree that, as far as this is a new Bill, the Council would be wrong to pass it without taking advantage of clause 8 of the rule and putting it for another term before the public; but I do not think we are precluded from taking it into consideration as it stands."

The Motion was put and agreed to.

The HON'BLE SIR HENRY HARRISON also moved that the clauses of the Bill be considered for settlement in the form recommended by the Select Committee.

The Motion was put and agreed to.

The HON'BLE SIR HENRY HARRISON also moved that in the preamble of the Bill the words 'and for the interment of persons other than Christians or Muhammadans' be inserted after the words 'Muhammadan burial-grounds'; and that the short title of the Act be omitted from section 1.

The Motions were put and agreed to.

The HON'BLE SIR HENRY HARRISON said—"The next motion which stands in my name is to move the passing of the Bill, but after the discussion which has taken place, to do so may have the appearance of hasty legislation, and I ask leave to move instead that the Bill, as amended, be republished for not less than one month. The last clause of the Bill would admit of placing such burial grounds as the Chinese and Jewish burial grounds under this new Board, and although this is not definitely contemplated it is desirable to ascertain whether these bodies have any objection to this Bill. On that ground it is very desirable to republish the Bill, so that, if these bodies protest against any interference with their cemeteries, the wording of the section can be altered."

The Motion was put and agreed to.

PROPOSED CENTRAL ROAD FROM THE HOWRAH BRIDGE TO THE SEALDAH RAILWAY STATION.

The HON'BLE SIR HENRY HARRISON moved for leave to introduce a Bill to enable the Commissioners for making Improvements in the Port of Calcutta to lend the Corporation of Calcutta a sum of money. He said:—"As the objects of this Bill have been sufficiently explained, and as the subject is one which has been much discussed in public, it is not necessary for me to say more than that this Bill is in aid of the construction of the new road from the Howrah Bridge to Sealdah, which the Municipal Commissioners have decided to construct."

The Motion was put and agreed to.

The HON'BLE SIR HENRY HARRISON applied to the President to suspend the Rules for the conduct of business to enable him to move that the Bill be read in Council.

The HON'BLE THE PRESIDENT having suspended the rules, the HON'BLE SIR HENRY HARRISON moved that the Bill be read in Council.

The Motion was put and agreed to.

The Bill was read accordingly.

The HON'BLE SIR HENRY HARRISON also moved that the Bill be referred to a Select Committee, consisting of the Hon'ble Mr. Allen, the Hon'ble Mr. Moore, the Hon'ble Dr. Rash Behari Ghose, and the Mover.

The Motion was put and agreed to.

ADJOURNMENT OF COUNCIL.

The HON'BLE THE PRESIDENT said:—"The only Bill we have ready to be passed now is the Private Fisheries Bill, which, if it were not for the peculiar wording of our rules, might well be passed to-day. The rule to which I refer does not exist in the Legislative Council of the Viceroy, and I think it is peculiar to this Council. It is this, that any amendment made in the wording of a Bill, however slight it may be, prevents the Council from passing the Bill on the same day. Practically in this Bill we have done all that is necessary, and we are ready to pass it; but we must defer its passing to another meeting. I understand that the Hon'ble and learned Advocate-General will not be here on Saturday next, but may be able to attend on Wednesday. I shall therefore adjourn the Council to Wednesday next, when, if the Advocate-General be unable to attend, the Legal Remembrancer will carry the Bill through. There will remain the Muhammadan Burial Boards' Bill, which will have to be before the public for another month, and the Select Committee on the Bill which has just been introduced for enabling the Port Commissioners to lend money to the Corporation of Calcutta for constructing the new road cannot, under the rules, submit their report in less than a month; so that these two Bills can be ready for consideration together after the expiry of that period. Early in July I hope to be back in Calcutta, and I propose that we should then take up these two subjects."

The Council adjourned to Wednesday, the 15th May, 1889.

CALCUTTA;
The 15th May, 1889.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., cap. 67.

THE Council met in the Council Chamber on Wednesday, the 15th May, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*
The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*
The HON'BLE P. NOLAN.
The HON'BLE T. T. ALLEN.
The HON'BLE SIR HENRY HARRISON, KT.
The HON'BLE SIR ALFRED CROFT, K.C.I.E.
The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.
The HON'BLE C. H. MOORE.
The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.
The HON'BLE DR. RASH BEHARY GHOSE.
The HON'BLE RAJA RAMESHWAR SINGH, BAHADUR.

The HON'BLE SIR CHARLES PAUL moved that the Bill for the protection of the right of fishing in private waters, as settled in Council, be passed.

The Motion was put and agreed to.

The HON'BLE SIR HENRY HARRISON moved that the Hon'ble Dr. Rash Behary Ghose be added to the Select Committee on the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port.

The Motion was put and agreed to.

The Council adjourned *sine die.*

CALCUTTA;
The 20th May, 1889.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

REPORT OF THE CHEMICAL EXAMINER TO GOVERNMENT FOR 1888.

RESOLUTION.

MEDICAL.

Calcutta, the 13th May 1889.

READ—

A letter from the Inspector-General of Civil Hospitals, No. 2753, dated the 26th March 1889, forwarding the report of the Chemical Examiner for 1888.

Read also—

The Report for 1887, and the Resolution recorded on it.

There has been some delay in the submission of the report in complete form by the Chemical Examiner.

The following table shows the general nature of the work done during 1888 as compared with 1887:—

	1887.	1888.
Medico-legal—		
Human viscera tested for poison	233	199
Animal ditto ditto	119	122
Fowls' ditto ditto	...	2
Substances suspected to be, or to contain poison, including cattle poison	594	591
Articles tested for blood stains	180	246
Ditto for seminal stains	54	61
Articles tested for purity and quality—		
Potable water	47	61
Petroleum and inflammable oils	212	268
Lime-juice	15	9
Opium confiscated	119	52
„ from the Board of Revenue, Lower Provinces	4	6
Salt	9	186
Ghee	10	37
Spirit for deleterious adulterations	8	18
Spirit determinations for the Collector of Customs ...	139	172
Small Arms Ammunition Factory, Dum-Dum ...	402	373
Fort William Arsenal	22	4
Ishapore Gunpowder and Cossipore Shell Factories ...	3	...
Medical Store Department	14	1
Telegraph Store „	8	10
Commissariat „	96	117
Army Clothing „ Alipore	2	...
Other departments	112	78
Total ...	2,402	2,613

In addition to the above, 26 reports were submitted on technical questions. The preparation of these reports necessitated in many instances the performance of a series of analyses.

The number of medico-legal examinations performed during the year was 1,221 against 1,180 in 1887. Among these the most important were those of human viscera; in 12·6 per cent. of those examined, arsenic, and in 26·13 per cent. opium, were detected, while other poisons were found in 6 per cent. of the cases. Poison was detected in 44 22 per cent. of the viscera against 44·6 per cent. in 1887.

Dr. Warden has continued to investigate the properties of a number of indigenous drugs, and is now engaged in editing a new edition of Dr. Dymock's Materia Medica of Western India, which contains a history of the principal drugs of vegetable origin met with in India.

The report on tube-wells is said to be nearly ready. The Lieutenant-Governor hopes it will be submitted to Government without further delay.

The thanks of the Lieutenant-Governor are due to Dr. Warden for his report, and for the good work he and his assistants have done during the year.

By order of the Lieutenant-Governor of Bengal,

J. WARE EDGAR,

Chief Secretary to the Government of Bengal.

DISTRESS IN THE PATNA DIVISION.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 14th May, 1889.

RESOLUTION.

READ—

A letter No. 225GF, dated the 6th May, 1889, from the Officiating Commissioner of the Patna Division, reporting on the condition of the people and the prospects of the crops in the districts of that division for the fortnight ending 30th April, 1889.

The spring has been less favourable than was anticipated in regard to weather, the yield of opium, *cheena*, and mangoes has been deficient, while a recent report from the Director of the Department of Land Records and Agriculture, Bengal, shows a marked deficiency in the *rubbi* harvest of the Province generally. Prices, both wholesale and retail, have risen everywhere, and, until rain falls, there will be less employment than heretofore for the working classes. The season is undoubtedly one of pressure, but it would appear that the arrangements made are adequate. The Lieutenant-Governor has recently sanctioned in full the allotments for loans under the Land Improvement and Agriculturists' Loans Acts applied for by the Commissioner, in the full belief that they will be used with caution and discretion.

Rani Rajbansi Koer.
Baboo Harihareudra Sahai.
Mussamut Dulhin Golab Kunwar.
Baboo Damudor Deb Narain Sing.
Kumar Satrajit Protap.
Mussamut Jagatrup Koer.
" Malikrani Koer.

2. The thanks of the Lieutenant-Governor have been communicated to the zemindars of Sarsund, named on the margin, for their contributions towards the cost of relief operations in the distressed tracts lying within their zemindari, in the Sitamarhi sub-division.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner for information, and that a copy, with a copy of the Report, be submitted for the information of the Government of India.

Ordered also that this Report and Resolution be published in the next issue of the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

No. 225GF, dated Bankipore, the 6th May 1889.

From—JOHN BOXWELL, Esq., Offg. Commissioner of the Patna Division,

To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit my report on the condition of the people and the prospects of the crops for the fortnight ending 30th ultimo.

PATNA.

2. The weather throughout the fortnight has been favourable for the threshing and winnowing operations which have almost been completed. The prices of food-grains are daily rising all over the district. The following table shows the prices ruling during the fortnight as compared with previous fortnight:—

	SUDDER.		BARH.		DINAPORE.		BEHAR.	
	Past fortnight.	Present fortnight.	Past fortnight.	Present fortnight.	Past fortnight.	Present fortnight.	Past fortnight.	Present fortnight.
Coarse rice	14 5	13½	12½	12¾	15	11½	14¾	14¼
Indian-corn	19	19	18	16¼	21	17½	21½	17¾
Wheat	15	15	15	14½	14½	13½	16½	15¼
Barley	25	20½	22	19	23	21	[illegible]	23½
Gram . ..	23	20	21½	20	24	21	[illegible]	19¼

SARUN.

3. The Collector reports that the harvesting of the *rabi* crop has been completed with an outturn of 12 annas, as expected. Opium weighments have also been completed. There are no important food-crops on the ground at present deserving of notice.

The following table shows the prices-current of chief food-grains during the past fortnight as compared with the preceding one :—

	Fortnight ending 30th April.	Fortnight ending 15th April.
Wheat	14½	17
Rice	12-14	12
Marua	20	20
Gram	20-8	21-4
Indian-corn	19-8	20
Arhar	21	22-8

The increase in the prices of the *rabi* crops, notwithstanding the coming of the new crop into the market, is attributed partly to exportation and partly to the combination of the local *bunias*. The Collector states that the local stocks are as full as in ordinary years, and hence there is no room for apprehension.

In Sewan subdivision the prices are the same as in Chupra, with slight variations, while in Gopalgunge they are somewhat higher, the rise in prices being attributed to large exportation from that subdivision.

SHAHABAD.

4. The only crops on the ground at present are cheena and sugarcane. Cheena is being cut with an average outturn, and sugarcane is doing well.

The quotations from the market during the fortnight under report (noted below) show a marked rise in the prices of food-grains, and the cause is reported to be demand for exportation.

	Seers.
Best rice	9¾
Common rice	13½
Wheat	15
Gram	26
Barley	19
Peas	20

The condition of the people remains unaltered.

GYA.

5. *Area affected.*—The area affected remains the same.

6. *General state of the affected tracts.*—No change in the state of the affected tracts, except that the number of labourers on relief works are increasing, as the harvesting of crops is nearly over.

Sugarcane and cheena are the only crops standing on the ground. There was no rainfall during the fortnight. There is undoubtedly considerable pinching all over the district owing to the *rabi* crop not having fulfilled its expectations.

Public health continues good.

7. *Public Works.*—An experimental test work was opened again at Kawakole, but there was no attendance of labourers. It is said that more than 200 coolies are already working under Mr. Christian and Babu Dirgopal Lal on mica mines, where they get one and a half to five annas per diem, and that about 600 labourers are working at Husua in the building of houses of Babu Dirgopal Lal and his brothers. Zemindars are now employing large number of labourers on Gilandazi work.

The attendance at the Sarawan relief works reached its highest point during the last fortnight.

The number of persons employed during the fortnight under the system of payment-by-result and task-work was 70 and 522 respectively.

About 200 persons were employed on earthwork, carried on through tuccavi loans.

8. *Stocks of grain, selling prices.*—The stock of grain is reported to be sufficient. Common rice is selling at 13½ to 14 seers at Gya, 15 seers at Nowada, and 17 seers at Aurungabad.

9. *Gratuitous relief.*—No expenditure during the fortnight.

10. *Advances.*—No advances under the Land Improvement and Agricultural Loans Acts could be made for want of fresh sanction of the allotments applied for in my letter No. 194G—F, dated 6th April 1889.

The amount allotted to the district lapsed at the end of the year before the necessary enquiries preliminary to distribution could be completed. Several enquiries are now complete, and the Collector is awaiting allotment to make advances.

MOZUFFERPORE.

11. *Area affected.*—Same as before.

12. *General state of the affected tract.*—No rain has fallen during the fortnight, and there has been a perceptible rise in prices, as will be seen from the quotations given below. There can be no improvement in the prospects until a fall of rain facilitates agricultural operations.

Names of Police Stations.	Rice.		Maokai.		Marua.	
	Fortnight under report.	Previous fortnight.	Fortnight under report.	Previous fortnight.	Fortnight under report.	Previous fortnight.
Sonbursa	11	13	16	19	16	19
Sursund	10-7	13¼	14-10	18½	14-10	17
Majrgunge	12-9	12-5	19	20	19	20
Bela	10-12	12¾	15-1	17¼	16-6	17¾
Sonbursa	11-6	13	......	18	16-3	16-13

The Collector has sent a supplomentary note on the cheena crop. He says 5,000 acres have been grown in the Sitamarhi subdivision, of which 2,000 only are in the affected tract. The expected outturn is only 2 annas, giving 6,500 maunds for the subdivision and 2,600 for the affected tract. Want of moisture and the strong west winds spoiled the crop.

13. *Public Works.*—The number of persons employed on different kinds of works during the fortnight is shown below as compared with the previous fortnight:—

	Fortnight under report.	Previous fortnight.
Civil agency works	1,175	612
Professional agency works	2,943	3,543
Private tank work	4,413	3,462

It will be seen that the number of persons employed on civil agency works and on private relief works has risen considerably. The number employed on professional agency works has fallen, but there was a sudden rise in the number of coolies working in the Shewhur road from 355 to 700 on the 27th ultimo, and it is believed that the number of labourers on professional agency will rise during the present month.

14. *Gratuitous relief.*—Expenditure under this head amounted to Rs. 134. A large number of persons received gratuitous relief from the Maharajah of Durbhunga and other zemindars.

It will be observed that the Collector of Mozufferpore has a class "Professional agency" works, new in this report. This is clearly a wrong classification. We have no "professional agency" works in progress. The Collector probably means District Board works. The mistake is unimportant, but will be corrected.

DURBHUNGA.

15. Accounts are so far favourable that no new or sudden cause for anxiety has arisen, and that the reports of the comparative tightness of pressure in the different circles are confirmed.

16. *Area affected.*—No change.

17. *General state of affected tract.*—Circles A and B, and of these two circles A, still show the greatest pressure. Mr. Grier writes:—

"The failure of rain during the past month has tended to darken prospects."......"Moisture is badly wanted for mung and muswa."......"The former is suffering severely from the drought."......"The late winds have ruined more than 75 per cent. of the (mango) fruit."...... "There is no symptom of distress in these tracts (circles C and D.)."......"Public health continues to be good."

About civil agency works he writes:—

"The labour returns show a large increase in the number of workers employed on these works, the daily average having risen from 2,469 in the second week to 3,628 at the close of the month."......"The increase is visible in circles A and B, there being a falling off in the past few days in the attendance on the Ladaffa-Laukahi road."......"A considerable quantity of Government *paisa* has been issued to petty contractors to distribute as wages, and little objection has been raised by shop-keepers or labourers."......"The 'figures' of the tank at Bulwa opened for the relief of non-able-bodied labourers show no increase, the daily average in the former period being 227."

A good deal of work is now being done by private agency. Mr. Grier gives attendance figures—

Men	...	1,611
Women	...	405
Children	...	361
	Total ...	2,377

But as I am in correspondence with Mr. Beadon on this subject, I only add here that the total under this head is probably much larger.

Two applications for small loans lately received will probably be granted.

18. *Gratuitous Relief.*—No gratuitous relief has been given by the Collector. That given by the Mohunt of Motihari is considered to be sufficient. Mr. Grier writes:—

"No unfavourable symptom has appeared in this neighbourhood (Rampur-Modhuapur, the worst part of the worst Circle A) during the present month."

Prices are rising everywhere, and will probably continue to rise till rain falls.

Crime shows an increase, probably due in part to the scarcity.

Mr. Beadon gives an abstract of attendance on works, which I divide differently, keeping his table exact:—

	Men.	Women.	Children.	Total.
Civil agency and District Board works ...	7,238	166	227	7,631
Private agency and on advances	1,852	439	353	2,644
Total ...	9,090	605	580	10,275

Points of importance are these—

Prices are rising in spite of the completion of the *rabi* harvest.

Even in the worst parts there are no new bad symptoms. Crime returns show an increase, though not great. Weather is bad. Rain is wanted.

CHUMPARUN.

19. *Area affected.*—No change under this head.

20. *General state of the affected tract.*—Rain is now wanted for agricultural operations throughout the district. The cheena crop in the affected area is a pronounced failure for want of rain. It has already withered on high, and is fast dying in the low lands. Opium weighment is finished, and the outturn is smaller than that of the previous year.

The Collector writes:—

"The condition of the lower classes in the affected tract is no doubt straitened, and if no rain falls within the next fortnight the pressure upon this will go on increasing. They have at present nothing to look forward to except relief works for their support. There has been an increase of nearly 1,000 labourers as compared with the previous fortnight; the canoongoes describe the position as very gloomy indeed, and destitution is clearly spreading."

Public health continues good.

21. *Public works.*—The number of persons who found employment in the several classes of works is estimated as follows:—

On civil agency works	8,428
On District Boards' works...	437
On works carried out by means of loans	1,100
	9,965

The markets are still sufficiently supplied, but the prices are gradually rising, and have already risen, as the following quotations will show:—

	This fortnight.			Last fortnight.		
	Srs.		Srs.	Srs.		Srs.
Common rice	11¼	to	12¼	12¼	to	14
Dhan	18½			19½	,,	20
Indian-corn	17¾	to	18¼	18¼	,,	19¼

22. *Advances.*—During the past fortnight the expenditure under this head was as follows:—

Under Land Improvement Act	300
,, Agriculturists Loans Act	1,055

On receipt of Government orders No. 1505—156F, dated 16th ultimo, the Collector stopped sanctioning loans, except to chowkidárs in the affected area whose pay was in arrears. He says that it is inadvisable to stop altogether making advances to the ryots, as this is the most pressing time, and comparatively few ryots can obtain sufficient support from mahajans.

23. *Gratuitous relief.*—The expenditure under this head was Rs. 78-7-6.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 18th May 1889.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.		*Western Districts.*		
Burdwan Divn.	1	Burdwan May 18, '89	2·16	Weather—seasonable where rain has fallen. More rain badly wanted throughout the district. Prices easier, varying from 14 seers per rupee at Culna to 16 seers at Burdwan.
		Culna ...	0·12	
		Raneegunge ..	0·15	
	2	Bankoora " 18, '89	1·21	Weather—cooler. The late showers have facilitated ploughing, and have done much good to the standing crops. Price of common rice stationary.
	3	Birbhum " 18, '89	Nil	Weather—still very hot, but not so bad as it has been. Clouds gather every evening. No crops to report on. Prices still stationary all over the district at from 15 to 13¼ seers per rupee.
		Rampur Hât ...	0·80	
	4	Midnapur " 18, '89	0·22	Weather—cooler; evenings cloudy, but no rain. Agricultural work at a standstill for want of rain. Price of rice at Midnapore Rs. 2-9-3, Contai Rs. 2-8, Tumlook Rs. 2-13, and Ghatal Rs. 2-8 per maund.
	5	Hooghly " 18, '89	......	Weather—warm. Agricultural operations retarded for want of rain. Sugarcane suffering. Price of rice at Jehanabad Rs. 2-8, Serampore Rs. 3-4, and Hooghly Rs. 3-8 per maund.
		Serampore ..	0·47	
		Jehanabad ...	0·07	
		Howrah " 18, '89	0·05	Weather—hot. Rain wanted. A good shower on 19th at Sudder; whether it was general not yet known. *Boro dhan* harvested; estimated outturn 10 annas in the Sudder sub-division *Amun* rice at head-quarters 12 seers per rupee and in the sub-division 13¼ seers.
		Central Districts.		
Presidency Divn.	6	24-Perghs. May 18, '89	0·12	Weather—very hot, windy with passing clouds. Rain much wanted. Price of rice varies from 12¾ to 15 seers per rupee
	7	Nuddea " 18, '89	0·12	Weather—very hot with strong south wind, and occasionally cloudy. Ploughing of land for early rice nearly finished. Sowings going on in the Kushtea, Meherpore and Chooadanga sub-divisions, where recent rain has done much good. Indigo and sugarcane doing well. No sowings commenced at Sudder and Ranaghat for want of rain.
		Kooshtea ...	1·26	
		Meherpur ...	1·57	
		Chooadanga ...	1·25	
		Ranaghat ...	0·09	
	8	Khoolna " 18, '89	0·22	Weather—hot with high winds A little rain has fallen, but not enough for ploughing, and work is consequently falling behind. *Boro* harvest nearly completed. *Til* harvest going on. No other crops on the ground.
	9	Jessore " 18, '89	0·48	Weather—very hot. The rainfall of the week has done some good to the sowings, but it is inadequate. More rain is wanted. About 10 and 7 annas of the proper areas under cultivation have respectively been sown with indigo and jute. Prospects considered gloomy owing to drought. Prices still rising.
		Jhenidah ..	1·31	
		Magura ...	0·78	
		Narail ...	0·55	
		Bongong ...	0 41	
	10	Moorshedabad " 18, '89	5 01	The extreme dry hot weather has broken up with a series of thunderstorms with heavy rain. There has been copious rain over the greater part of the district, which has enabled the sowing of *aus dhan* to begin, and has much benefited the mulberry crop, and jute and sugarcane. Cattle disease has broken out in thana Kalyangong
		Lalbagh ...	3·60	
		Kandi ...	0·30	
Rajshahye Divn.	11	Dinagepur " 18, '89	Nil	Weather—hot with westerly and easterly winds. Prospects are bad. Jute is reported to have completely failed in some parts for want of moisture. *Aus* seedlings are withering, and only half the usual area of sugarcane has been planted out. Coarse rice selling at 13 seers per rupee.
	12	Rajshahye " 18, '89	0·32	Weather—hot; strong winds. Rain urgently required. Rice selling at 15¼ seers per rupee.
		Nattore ...	0·09	
		Nowgong ..	0·01	
	13	Rungpore " 18, '89	0 90	Weather—cool and cloudy with high winds from north-east. The rainfall appears to have been pretty general, and it has improved the prospects of the crops. More rain is however wanted, and the deficient water-supply is telling on the public health.
		Kurigram ...	0·51	
	14	Bogra " 18, '89	0·71	Weather—very variable. Showers fell over small areas Jute and paddy are still being sown, but the seedlings in many places are stunted and in some places withered. Prospects of sugarcane and *til* are also unfavourable. More rain is wanted, especially in the middle and west of the district Cattle disease is rather prevalent. Coarse rice is selling at 17 seers per rupee
		Sherpore ..	0·34	
		Nowkhilla	1·73	
	15	Pubna " 18, '89	0·11	Weather—hot with occasional local storms Good rain in the Serajgunge subdivision and parts of the Sudder sub-division has much improved the *aus*, jute and sugarcane sowings. *Aus* and jute are still being sown. More rain is wanted. Coarse rice sells at 14 or 15 seers per rupee
	16	Darjeeling " 18, '89	0·87	Weather—still rather unsettled at head-quarters. More rain wanted in Terai Crop prospects are fair.
	17	Julpigoree " 18, '89	0·44	Weather—hot and cloudy with high east wind at intervals. Sowing of *bhadoi* and jute still going on. Sugarcane is being planted. More rain wanted Common rice sells at Rs. 2-8 per maund.
		Eastern Districts.		
Dacca Divn.	18	Dacca May 18, '89	1·68	Weather—hot with high winds. Rice and jute are still being sown. About 8 annas of rice and 9 annas of jute have been sown. Recent rain has been beneficial to the crops already sown. Jute plants in places in the Manickgunge sub-division have been damaged by insects.
	19	Furreedpur " 18, '89	0·32	Weather—hot. Rain very much wanted for paddy crop. Rice selling at 11 seers per rupee at head-quarters.
	20	Backergunge " 18, '89	0·93	Weather—hot. Ploughing for *aus dhan* progressing; more rain wanted.
	21	Mymensingh " 18, '89	2·34	Weather—variable with storms. There has been a great storm in Tangail resulting in loss of life. Jute sowings are complete, and *aus* paddy sowings are nearly so. Jute has been sown on 16 annas of usual area. *Aus* paddy will also have been sown on 16 annas of usual area. Prospects are generally good except in Tangail. In Jamalpur prospects are now better, as moderate rain has fallen there.
		Tangail ...	4·22	

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts—concld.		
CHITTAGONG DIVN.	22	Chittagong May 18, '89	0·59	Weather—seasonable. *Aus* is being sown, and the state of other crops fair.
	23	Noakholly „ 18, '89	0·89	Weather—very hot and cloudy. Extent of *aus* sowings reported to be 14 annas. All suffering from want of rain, and in some parts a complete failure is apprehended. *Supari* crop bad in parts. State of cattle bad. Outturn of *rubbi* will probably not exceed 10 annas. A water famine in some parts. Rain urgently wanted.
	24	Tipperah „ 18, '89	1·64	Weather—hot with storms. *Aus dhan* and jute sowings completed. *Amun* sowings nearly finished. More rain wanted in the Chandpur sub-division.
	25	Chittagong Hill Tracts. „		Report not received.
		Hill Tipperah „ 18, '89	1·95	Weather—warm and unsettled. Chillies are being gathered. Prospects of jute and sugarcane fair. *Aus* paddy is being sown.
BEHAR				
PATNA DIVN.	26	Patna May 18, '89	Nil	Weather—very hot. Harvesting of *boro* rice and *cheena* going on. Sugarcane doing well Prices of food-grains almost stationary. In Behar prices are rising by degrees.
	27	Gya „ 18, '89	Nil	Weather—very hot. Sugarcane is being irrigated and coming on well. Prices of food-grains rising.
	28	Shahabad „ 18, '89	Nil	Weather—extremely hot with variable winds. Very little on the ground except sugarcane. Prices rising slightly, but supplies in markets plentiful.
	29	Durbhunga „ 18, '89	Nil	Weather—excessive heat during the day. Drought continues, and *cheena* and *mung* severely damaged by it. Indigo is bearing up, but is in need of rain. Price of common rice ranges from 11 to 12½ seers per rupee.
	30	Mozufferpur „ 18, '89	Nil	Weather—very hot; occasionally cloudy. Rain is much wanted. No crops on ground except indigo.
	31	Sarun „ 18, '89	Nil	Weather—very hot and dry. *Cheena* is being irrigated. Rain badly wanted for *cheena* and indigo.
	32	Chumparun „ 18, '89	Nil	Weather—hot, with varying winds. Rain is wanted in every part of the district, especially for *mung* and paddy which have been sown in places, and for indigo. Prices continue to rise.
BHAGULPORE DIVN.	33	Monghyr „ 18, '89	Nil	Weather—very hot and sultry. Lands are being prepared in the Begooserai sub-division for the ensuing *bhadoi* crops. Rain wanted everywhere. Prices of food-grains still rising.
	34	Bhagulpur „ 18, '89	Nil	Weather—very hot with alternating west and east winds. Rain urgently wanted. Light lands are being ploughed, but operations for *bhadoi* are generally very backward. Low-land rice and *mung* are suffering in the north, and prospects there are bad. Indigo poor. Prices remain high.
	35	Purneah „ 18, '89	Nil	Weather—hot and dry. There are no crops. The drought has put a complete stop to agricultural operations.
	36	Maldah „ 18, '89	Slight rain on 15th.	Weather—mornings and evenings somewhat cool, but days very hot; hard easterly wind on two days. Rain much needed everywhere. Harvesting of *boro* paddy continues with a fair outturn. On the average 11 annas of *bhadoi* paddy sown. Rain has done some good to *bhadoi* in Nowabgunge thanah, but injury is being done to it and to jute and indigo plants in north of district for want of rain. Price of rice still rising.
	37	Sonthal Perghs. „ 18, '89	Nil	Weather—intensely hot. Sugarcane, indigo and *bhadoi* crops suffering for want rain. Prices rising.
ORISSA.				
ORISSA DIVN.	38	Cuttack „ 18, '89	2·30	Weather—dry but windy. Yesterday's (17th) rainfall at and near head-quarters will be much beneficial for ploughing operations. Heavy rain at Banki on the 13th. Sub-divisional officer's report up to 16th states that ploughing for *beali* and *sarad* rice not progressing well for want of rain. Price of rice stationary.
	39	Pooree „ 17, '89	Nil	Weather—hot and cloudy at intervals. Rain much wanted for cultivating lands for *sarad* crops. Price of common rice varies from 21 seers to 14 seers 7 chittacks per rupee in the Sudder sub-division and from 15 seers 12 chittacks to 13 seers 2 chittacks in the Khoorda sub-division.
	40	Balasore „ 17, '89	0·52	Weather—mornings and evenings are pleasant; days very hot. Rain much wanted everywhere. The utter want of rain in the north of the district is likely to prove serious for cultivation and cattle Sugarcane cultivation has commenced, but for want of rain it is planted only on about 10 annas of the usual area. Prices stationary.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
CHOTA NAGPORE DIVN.	41	Hazaribagh May 18, '89	Nil	Weather—very hot and dry with west wind. Sugarcane reported to be suffering from heat and want of moisture in places. No other crops. Want of water beginning to be felt in places. Common rice selling at from 12 to 16 seers per rupee.
	42	Lohardugga „ 18, '89	0·02	Weather—very hot. Slight rain with windy and cloudy weather. Land is being prepared for early paddy. Outturn of lac at head-quarters is not good, being estimated at from 8 to 10 annas. Prices rising in the Palamow sub-division.
	43	Singbhoom „ 18, '89	1·24	Weather—intensely hot during the week. Heavy rain and hail on the 17th. Sugarcane and *boro dhan* doing well. Lac cultivation continues in the Kolhan. Prices stationary.
	44	Manbhoom „ 18, '89	0·21	Weather—very hot. More rain wanted for early ploughings. Scarcity of water prevails in the south. Prices rising.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 21*st May* 1889.

R. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH MAY 1889.

PRICES-CURRENT (retail) of Foo

Number.	DISTRICTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, best … Present return.	Rice, best … Next preceding return.	Kangni or Kakun, Italian Millet. (Setaria italica.) Present return.	Kangni or Kakun. Next preceding return.	Kangni or Kakun. Corresponding return of last year.	Gram, Chana, Chola, Kadalay or Sunaga. (Cicer arietinum.) Present return.	Gram. Next preceding return.	Gram. Corresponding return of last year.
	BENGAL.														
	Western Districts.														
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	13 4	13 2	14 8	No sale.			11 10	12 6	...	...	...	13 0	17 0	23 0
2	Bankoora ...	14 0	14 0	16 0	18 0	18 0	20 0	15 0	15 0	...	...	...	16 0	16 0	19 0
3	Beerbhoom* ...	...	...	...	...	...	...	...		...	...	...	...	...	
4	Midnapore ...	10 0	10 0	17 0	40 0	40 0	40 0	11 0	12 0	...	...	..	14 0 / 14 8	14 0 / 14 8	17 0
5	Hooghly ...	13 0	13 0	14 0	...	...	...	10 0	10 0	...	...	...	16 0	16 0	[illegible]
	Howrah ...	14 0	...	...	...	...	...	10 0	10 0	...	...	...	18 0	19 0	21 8
	Central Districts.														
	Calcutta ...	12 4	12 14	14 4	17 0	17 2	24 6	8 13	9 3	19 13	17 12	13 5	15 12	16 13	22 0
6	24-Pergunnahs	13 4	13 0	16 0	18 0	16 0	22 0	8 0	8 0	12 0	12 0	13 0	17 0	17 8	22 8
7	Nuddea ..	14 15	14 15	16 6	20 0	20 0	26 10½	12 0	12 4	...	...	...	19 0	20 0	26 10½
8	Khoolna .	...	...	...	.	...	.	10 11	12 0	...	...	...	16 0	14 0	15 0
9	Jessore ...	11 4	11 0	16 0	...	...	..	11 0	11 0	...	...	...	20 0	20 0	26 4
10	Moorshedabad	13 4	15 0	16 0	..	..	...	11 0	11 0	...	...	...	18 4	20 0	27 0
11	Dinagepore	12 0	12 0	16 0	16 0	...	...	13 0	13 0	...	...	...	16 0	13 0	16 4
12	Rajshahye ..	15 12	16 8	19 8	19 8	24 0	45 0	12 0	12 0	...	...	...	19 8	21 0	24 0
13	Rungpore ..	14 8	14 8	17 8	.	..	...	10 8	10 8	...	...	...	13 0	10 5	20 0
14	Bogra ..	13 8	15 0	17 4	...	..	...	13 8	13 8	...	...	...	16 8	19 8	17 4
15	Pubna ..	17 4	16 14	19 8	.			7 8	7 8	...	...	...	18 0	22 0	30 0
16	Darjeeling ..	10 0	10 0	10 0	6 0	6 0	11 0	6 0	6 0	...	...	...	9 0	9 0	10 0
	Julpigoree .	10 0	10 0	13 0	16 0	16 0	20 0	8 0	8 0	...	...	...	16 0	12 0	20 0
	Eastern Districts.														
18	Dacca ...	13 0	15 8	19 0	26 0	26 0	38 0	12 0	13 4	...	...	..	14 0	13 0	17 8
19	Furreedpore ...	16 0	20 0	24 0	18 0	25 0	40 0	8 0	9 0	...	...	...	20 0	22 0	16 0
20	Backergunge ...	...	...	..	..	...	..	10 8	10 8	...	...	...	16 0	17 0	12 0
21	Mymensingh ...	12 0	10 8	12 0	.	...	...	13 0	13 0	...	...	...	13 0	16 0	16 0

* Return not received.

A In sub-divisions retail prices of salt per rupee are :—Cutna 10 seers, Cutwa 9

B In sub-divisions retail prices of salt per rupee are : Ghatal 10⅞ seers, Tum

C In sub-divisions retail prices of salt per rupee are :—Serampore 10 seers … 10 seers.

C1 In sub-divisions retail prices of salt per rupee are :—Baraset 9 seers, Bussirhat 9 seers, Diamond Harbour (at Kulpihat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

D In sub-divisions retail prices of salt per rupee are :—Kooshtea and Ranaghat 10 seers, Meherpore 10½ seers, and Chooadanga 9 seers.

E In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.

F In sub-divisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

9705

Head-quarter Station Bazars of the Districts of Bengal on the 15th May 1889.

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Ch. S.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
	No sale.		19 0	18 0	23 0	1[illegible]7 0	1[illegible]7 0	1[illegible]0 0	A 9 $14\frac{3}{8}$	19 $14\frac{3}{8}$	10 $7\frac{1}{2}$	3 11 6	3 11 6	3 10 9	Burdwan.
21 0	21 0	32 8	16 0	17 8	20 8	280 0	28[illegible] 0	320 0	10 0	10 0	10 8	3 15 0	3 15 [illegible]	3 11 0	Bankoora.
...	...	...	...	..	...	.	...	...	...	...	...	......	......	......	Beerbhoom.
...	...	...	14 0	14 0	15 0	160 0	160 0	120 0	B 10 4	10 4	9 0	3 14 0	3 14 0	4 2 0	Midnapore.
...	...	...	13 0	13 0	13 0	120 0	120 0	120 0	C 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	...	...	13 0	13 0	14 4	100 0	100 0	100 0	10 8	10 8	9 0	3 10 6	3 10 6	3 12 0	Howrah.
															Central Districts.
...	...	17 12	16 4	15 10	18 4	100 0	99 0	95 0	10 8	10 5	10 10	3 9 3	3 9 5	3 7 10	Calcutta.
...	...	...	17 0	15 0	20 0	100 0	100 0	110 0	C1 10 8	10 8	10 8	3 8 9	3 8 9	3 8 6	24-Pergunnahs.
...	...	...	16 0	16 0	10 0	...	...	...	D 9 2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea.
...	...	...	...	...	...	180 0	16[illegible] 0	160 0	E 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Khoolna.
...	...	...	20 0	21 8	20 0	16[illegible] 0	[illegible]6[illegible] 0	[illegible]00 0	F 9 2	9 2	8 0	4 0 0	4 0 0	4 4 0	Jessore.
...	...	...	18 12	20 0	23 0	200 0	200 0	200 0	G 9 0	9 0	11 12	4 0 0	4 0 0	3 6 0	Moorshedabad.
...	...	...	12 0	11 0	10 8	16[illegible] 0	160 0	160 0	H 9 8	9 8	9 8	3 15 0	3 15 0	4 0 0	Dinagepore.
...	...	...	19 1	20 9	17 0	240 0	240 0	240 0	I 8 10	8 13	9 12	4 5 4	4 5 4	3 13 4	Rajshahye.
...	...	...	13 0	13 0	11 8	120 0	120 0	120 0	J 9 6	9 6	9 12	4 4 0	4 4 0	3 15 3	Rungpore.
...	...	...	...	...	...	90 0	96 0	90 0	9 0	9 6	7 11	4 2 8	4 2 8	4 5 4	Bogra.
...	...	...	18 12	21 0	25 0	[illegible]00 0	[illegible]00 [illegible]	[illegible]00 [illegible]	K 9 2	9 2	9 12	4 1 0	4 1 0	4 1 6	Pubna.
18 0	18 0	20 0	...	...	...	120 0	120 0	12[illegible] 0	L 7 0	7 0	8 0	5 0 0	5 0 0	...	Darjeeling.
...	...	20 0	10 0	10 0	12 0	128 0	128 0	128 0	M 9 0	9 0	9 0	4 4 0	4 4 0	...	Julpigoree.
															Eastern Districts.
...	...	...	16 0	16 0	17 0	160 0	120 0	120 0	O 10 0	10 0	8 8	3 15 0	3 14 0	4 4 0	Dacca.
...	...	...	10 0	14 0	...	120 0	130 0	120 0	9 0	9 0	9 0	4 0 0	3 15 6	4 5 0	Furreedpore.
...	...	...	...	...	...	1[illegible]0 0	1[illegible]0 0	120 0	P 9 9	...	9 13	4 2 0	4 0 0	3 10 0	Backergunge.
...	...	...	16 0	16 0	12 8	...	...	...	Q 10 0	10 0	9 0	3 15 [illegible]	3 15 0	4 3 0	Mymensingh.

G In Lalbagh, Kandi and Jungipore sub-divisions retail price of salt 10 seers per rupee.
H In Thakurgaon sub division retail price of salt 8 seers per rupee.
I In sub-divisions retail prices of salt per rupee are :—Nattore $9\frac{3}{4}$ seers, and Nowgong 9 seers 9 chittacks.
J In sub-divisions retail prices of salt per rupee are :—Gaibanda 8 seers, Kurigram 9 seers.
K At Serajgunge retail price of salt $10\frac{1}{2}$ seers per rupee.
L Retail price of salt at Kurseong 8 seers, and Silliguri 9 seers per rupee.
M At Fallacutta in Alipore sub-division retail price of salt 8 seers per rupee.
O In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge $8\frac{1}{2}$ seers, and Naraingunge 10 seers.
P In sub-divisions retail prices of salt per rupee are :– Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
Q In sub-divisions retail prices of salt per rupee are :—Kishoregunge, Sherepore and Netrokona 8 seers, and Jamalpore 10 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood

Number.	DISTRICTS.	Wheat. Present return.	Wheat. Next preceding return.	Wheat. Corresponding return of last year.	Barley. Present return.	Barley. Next preceding return.	Barley. Corresponding return of last year.	Rice, best sort. Present return.	Rice, best sort. Next preceding return.	Rice, best sort. Corresponding return	Kangni or Kakun. Italian millet. (*Setaria italica.*) Present return.	Kangni. Next preceding return.	Kangni. Corresponding return of last year.	Gram, Chana, Chhola, Kadalay, or Sunaga. (*Cicer arietinum.*) Present return.	Gram. Next preceding return.	Gram. Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. [illegible]	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	10 0	11 0	13	...	...	...	12 0	13 0	15 0
23	Noakholly ...	...	...	...	...	...	...	12 0	12 0	19	...	...	...	12 0	12 0	11 0
24	Tipperah ...	12 0	12 8	12 8	...	...	...	13 0	13 8	17	...	...	...	16 0	16 0	14 4
25	Chittagong Hill Tracts.	...	...	...	...	...	...	10 0	10 0	14	...	...	...	...	...	...
	Hill Tipperah ...	6 0	6 0	8 0	...	...	...	8 0	8 0	10	...	...	...	10 0	10 0	12 0
	BEHAR.															
26	Patna ...	15 8	15 0	19 0	22 0	20 8	28 0	10 0	10 0	11	12 0	12 0	21 0	21 8	20 0	29 0
27	Gya ...	16 8	15 8	17 0	23 0	21 0	25 0	8 8	8 8	10	11 0	11 0	19 0	19 0	19 0	28 0
28	Shahabad ...	14 8	14 8	16 8	20 0	2) 0	25 0	8 8	8 8	8 1	...	...	...	20 0	20 8	23 8
29	Durbhunga ...	13 11	13 11	17 0	19 6	19 6¼	40 0	9 2	10 4¼	12	16 0	...	...	19 6	20 9¼	26 0
30	Mozufferpore ...	12 0	12 8	16 0	16 0	18 0	25 0	9 0	9 0	12	...	...	...	19 0	19 0	25 0
31	Sarun ...	13 8	14 8	17 2	19 8	20 8	26 0	8 8	8 8	9	11 0	11 0	16 8	19 4	20 8	22 2
32	Chumparun ...	11 8	12 0	16 0	18 0	21 0	31 0	7 0	7 0	7	...	...	...	16 0	17 8	21 0
33	Monghyr ...	16 4	16 13	19 0	21 0	22 0	29 7	10 8	12 9	13	12 9	16 13	26 4	20 10	21 10	31 8
34	Bhagulpore ...	15 2	16 6	18 15	18 15	21 7	27 8	11 9	12 10	15	...	...	...	18 4	20 3	27 12
35	Purneah ...	20 0	14 0	20 0	...	...	...	16 0	13 0	19	...	...	17 0	20 0	16 0	30 0
36	Maldah ...	15 0	16 0	18 0	...	...	...	10 0	10 0	14	...	...	...	22 8	24 0	28 0
37	Sonthal Perghs.	12 0	13 0	13 0	...	...	...	12 0	13 0	16	...	...	...	17 0	17 0	21 0
	ORISSA.															
38	Cuttack ...	10 8	14 7	15 12	...	...	...	10 8	10 8	11	...	...	...	19 11	21 0	19 11
39	Pooree ...	11 13	13 2	13 2	...	...	...	11 13	11 13	17	...	...	...	15 12	15 12	17 1
40	Balasore ...	17 0	17 0	15 0	13 0	13 0	13 0	12 0	12 0	14	...	...	...	14 0	13 0	16 0
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	12 4	14 8	15 0	17 0	18 0	20 0	8 0	0	8	No procurable			14 0	14 8	17 9
42	Lohardugga ...	(Red) 12 0	13 0	14 0	14 0	16 0	...	12 0	13 0	15	...	...	...	12 0	13 0	18 0
43	Singbhoom ...	11 0	14 0	14 0	16 0	16 0	16 0	12 0	14 0	16	...	...	...	10 0	12 0	15 [illegible]
44	Manbhoom ...	12 0	13 0	13 0	...	20 0	20 0	13 0	13 0	14	...	...	...	17 0	16 8	17 8

R At Cox's Bazar retail price of salt 8 seers per rupee.
S At Feny Hât retail price of salt 8 seers per rupee.
T In sub-divisions retail prices of salt per rupee are :—Buxar 10¼ seers, Bhabuah 9¾
U In Madhubani and Tajpore sub-divisions retail price of salt 10 seers per rupee.
V At Hajipore retail price of salt 10 seers per rupee.

CALCUTTA,
The 21st May 1889.

Station Bazars of the Districts of Bengal on the 15th May 1889—(concluded).

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	*Eastern Districts*—concluded.
...	...	...	...	...	...	100 0	100 0	110 0	R 9 0	9 0	9 0	4 0 0	4 0 0	3 14 0	Chittagong.
...	...	...	8 0	8 0	...	...	...	...	S 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
...	...	...	9 0	9 0	10 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 10 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	6 6	......	...	5 8 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	12 0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah.
															BEHAR.
...	19 0	27 0	21 0	21 0	30 0	130 0	130 0	120 0	10 0	10 0	10 0	3 12 3	3 12 6	3 14 0	Patna.
...	...	...	18 0	18 4	20 0	200 0	200 0	160 0	9 2	9 2	9 8	4 2 0	4 2 0	4 4 0	Gya.
...	...	...	13 0	13 4	14 0	160 0	160 0	140 0	T 10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
16 0	19 6¼	30 0	18 4	19 6½	24 0	160 0	183 4¼	160 0	U 9 14	11 6¼	10 0	4 0 9	3 8 3	3 8 0	Durbhunga.
16 0	16 0	23 0	20 0	30 0	30 0	160 0	160 0	160 0	V 10 0	10 0	10 0	3 12 0	3 12 0	3 12 0	Mozufferpore.
18 8	16 8	24 0	17 8	21 0	27 0	160 0	160 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Sarun.
15 8	17 0	28 0	20 0	21 0	28 0	160 0	160 0	160 0	W 9 8	9 8	8 0	4 1 0	4 0 0	4 0 0	Chumparun.
16 12	21 10	27 5	16 12	18 10	25 4	147 0	147 0	126 0	X 10 0	9 8	10 0	3 13 0	4 0 0	3 11 0	Monghyr.
16 12	17 10	26 8	18 15	20 3	25 4	176 12	176 12	51 8	10 1	10 1	10 1	3 13 0	3 13 0	3 13 0	Bhagulpore.
...	...	...	...	16 0	18 0	...	200 0	120 0	Y ...	9 0	8 8	4 7 0	4 5 0	4 8 0	Purnean.
...	...	...	...	...	...	160 0	160 0	120 0	9 0	9 8	9 8	4 0 0	4 0 0	4 0 0	Maldah.
17 0	18 0	29 0	22 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	10 0	4 8 0	4 3 0	3 12 0	Sonthal Perghs.
															ORISSA.
...	...	...	19 11	19 11	15 12	80 0	80 0	80 0	8 0	11 0	10 0	4 7 0	2 12 0	3 11 0	Cuttack.
...	...	...	14 7	13 2	15 12	80 0	80 0	80 0	10 8	10 8	10 8	3 8 0	3 8 0	3 8 0	Pooree.
...	...	...	...	...	...	160 0	160 0	200 0	Z 10 0	10 0	9 0	3 15 0	3 15 0	4 4 0	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
15 0	16 0	19 0	17 0	18 8	18 8	320 0	320 0	320 0	8 0	8 8	8 0	4 6 0	4 6 0	4 6 0	Hazaribagh.
16 0	...	...	big 12 0, small 14 0	big 12 8, small 14 12	small 21 8	140 0	140 0	140 0	8 0	8 0	7 12	4 15 0	4 14 0	5 2 0	Lohardugga.
...	22 0	...	15 0	16 0	22 0	200 0	200 0	240 0	7 0	7 0	6 8	5 8 0	5 8 0	6 0 0	Singbhoom.
25 0	25 0	28 0	16 0	16 0	22 0	200 0	200 0	200 0	Z1 8 0	9 0	8 0	4 4 0	4 4 0	4 8 0	Manbhoom.

W At Bettiah retail price of salt 10 seers per rupee.
X In sub-divisions retail prices of salt per rupee are :—Beguserai 9¼ seers and Jamui 9 seers.
Y In sub-divisions retail prices of salt per rupee are :— Kishengunge 8 seers and Arrarea (at Ranigunge) 9½ seers.
Z At Bhudruck retail price of salt 9 seers per rupee.
Z1 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt OF 40 SEERS.

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT		MARUA OR RAGI. (*Eleusine Coroçana.*)			KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria italica.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 13 7	2 13 7	2 8 10	2 1 10	2 1 2	1 5 11	4 4 2	4 0 3	...	...	...	1 12 3	2 0 0	2 12 0
2	Serajgunge ...	2 5 0	2 5 0	1 14 2	...	...	...	3 12 0	3 10 0	...	...	...	...	...	...
3	Dacca ...	3 0 0	2 8 0	2 0 0	1 8 0	1 8 0	1 0 0	3 4 0	3 0 0	...	...	...	...	...	...
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	...	...	...	...	...	...
5	Chittagong ...	3 9 0	3 9 0	3 8 0	...	...	...	4 0 0	3 8 0	...	...	...	...	...	...
6	Patna ...	2 10 6	2 12 0	2 0 0	1 12 6	1 15 6	1 7 0	3 14 0	3 14 0	...	...	...	3 0 0	3 0 0	1 13 0
7	Balasore ...	2 4 0	2 4 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	...	...	...	...	...	...
8	Pooree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Cuttack ...	3 10 0	2 10 0	2 5 0	...	...	...	3 10 0	3 10 0	...	...	...	...	...	...

CALCUTTA;
The 15th May 1889.

in the undermentioned Marts of Bengal on the 15th May 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 4 9	2 2 8	1 8 3	..	...	2 0 4	2 8 7	2 5 1	1 14 4	0 5 6	0 5 9	0 6 8	3 9 3	3 9 5	3 7 10	Calcutta.
3 2 0	3 2 0	1 10 0	...	...	...	...	...	...	...	...	...	3 13 0	3 13 6	3 15 0	Serajgunge.
2 12 0	3 0 0	2 1 0	...	...	...	2 6 0	2 8 0	2 0 0	0 4 0	0 5 0	0 5 0	3 15 0	3 14 0	4 4 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 10 0	0 10 0	0 10 0	3 12 0	3 12 0	4 0 0	Naraingunge.
3 2 0	3 0 0	2 8 0	...	...	...	...	...	...	0 7 0	0 7 0	0 5 0	4 0 0	4 0 0	3 14 0	Chittagong.
1 14 0	1 15 3	1 5 9	...	2 1 0	1 7 0	1 12 6	1 14 0	1 4 6	0 5 0	0 5 0	0 5 0	3 12 3	3 12 6	3 14 0	Patna.
2 12 0	2 14 0	2 6 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 0	3 15 0	3 15 0	4 4 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 8 0	3 8 0	3 8 0	Pooree.
2 0 0	1 11 0	2 0 0	...	...	...	2 0 0	2 0 0	2 5 0	0 8 0	0 8 0	0 8 0	4 7 0	2 12 0	3 14 0	Cuttack.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity daily.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree ...	Pooree ...	29·785	29·797	—	SW	288·0	88·7	18th May	77·1	11th May	87·3	79·0	83·2	—	81·3
		Gopalpore ..	29·771	29·821	+·061	SSW	614·0	88·2	17th "	79·3	11th to 18th May.	86·8	80·4	83·6	—0·2	82·9
		False Point ...	29·776	29·798	+·040	S & SSW	415·9	91·8	17th "	79·9	12th "	90·1	80·4	85·3	+0·7	85·3
	Cuttack	Cuttack ...	29·715	29·796	+·050	SW & SSW	199·0	108·4	11th "	80·9	11th "	105·0	82·8	93·9	+8·4	87 2
	Balasore	Balasore ..	29·728	29·786	+·008	SSW	333·4	107·5	11th & 12th May.	79·7	11th & 17th May.	103·0	82·0	92·5	+7·2	87·4
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·779	29·805	+·045	S	682·0	98·2	12th "	77·0	15th "	94 1	82·5	88·3	+3·1	86·1
	Midnapore	Midnapore ..	29 611	29·761	—·012	S	241·2	114·4	12th "	78·3	15th "	107·5	80·8	94·2	+6 9	87·7
	24-Pergunnahs ..., Howrah ... ..., Hooghly	Calcutta .	29·753	29·775	+·002	SSW	281·3	97·5	11th & 12th May.	74·2	15th "	94 9	80·2	87·6	+3·2	85·7
	Burdwan	Burdwan	29·644	29·744	—·006	S	146·6	113·7	12th "	72·9	15th "	106 7	80 2	93·6	+6·8	85 5
	Bankoora	Bankoora ...	29·485	29·723	—	S	125·0	115·1	12th "	75·1	15th "	110 2	80·9	95 5	—	87·7
	Beerbhoom ... ..., West Burdwan	Raneegunge ...	29·416	29·720	—·009	SSW	68·9	115·5	11th to 13th May.	75·9	15th "	111·9	82·2	97·0	+8·9	90·3
	Moorshedabad	Berhampore...	29·678	29·743	—·012	S	185·7	113·2	12th "	69·8	14th "	107 3	78·1	92·8	+5·1	84·7
	Nuddea	Krishnaghur...	29·711	29·777	+·004	S	275·6	110 8	12th "	75·3	15th "	104 1	79·9	92 0	+6·8	86 8
	Jessore ... ..., Khoolna	Jessore ...	29·743	29·776	+·013	SSE	186·5	103·3	11th & 12th May.	73·9	15th "	100 8	80·9	90·9	+5·2	87 2
East Bengal.	Chittagong	Chittagong .	29·778	29·867	+·049	SSE	191·0	90·6	13th, 14th May.	72·5	15th, 16th May.	89·7	77·3	83·5	+1 8	84·5
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ...	29·806	29·818	+·088	S	251·6	93·8	13th May	73·4	15th "	92·7	79 3	86·0	+3 7	85 3
	Noakholly	Noakholly ...	29·795	29·829	+·080	SSW & SW	259 2	92 3	15th "	70·8	16th "	91·7	79·2	85·5	+10·8?	86·9
	Furreedpore	Furreedpore...	29·746	29 786	—·006	S	288·0	100 0	12th "	73·9	15th "	96·9.	78·5	87·7	+5·4	84·5
	Dacca	Dacca ...	29·783	29·805	+·026	Southerly	—	95·6	11th "	68·2	16th "	93·0	77·6	85 3	+2·1	84·3
	Commillah	Commillah ...	29·803*	29 838*	—	S	211·4	93·3	11th to 15th & 17th May.	68·8	16th "	93·2	76 6	84·9	—	83·5
	Mymensingh	Mymensingh	29·749	29·807	—·011	ESE	216·8	95·8	12th "	68·6	16th "	93·7	73·3	83·0	+4·1	80·2
North Bengal.	Bogra	Bogra .	29·690	29 753	—·014	ESE	122·6	110·3	12th "	71·8	16th "	101·9	76·6	89 3	+6·8	82·4
	Pubna	Serajgunge ...	29·730	29 777	—·011	South-Easterly	104·8	100·6	12th "	51·9	15th "	94·0	72·7	83·7	+2·2	81 9
	Rajshahye	Rampore Beauleah.	29 681	29·751	—·029	Southerly	249·2	108·8	12th "	73·6	16th "	101·5	78 7	90·2	+5 6	84 6
	Maldah	Maldah ...	29·640	29·727	—	SE	122·7	109·2	12th "	77·5	17th "	107·6	80 2	93 8	—	88 7
	Dinagepore	Dinagepore ..	29 641	29·761	—·005	Easterly	190 9	108 1	12th "	71·1	16th "	102·9	76·4	89·6	+7·8	83·8
	Rungpore	Rungpore ...	29·673	29 799	+·031?	NE	161·0	99·6	13th "	68 7	16th "	95·7	74·3	85·0	+5 0	80 3
	Julpigoree ... ..., Cooch Behar	Julpigoree ...	29·503	29 794	+·015	E	257·4	93·5	12th & 17th May.	67 3	16th "	91·3	70 7	81·0	+2·3	79·1
	Darjeeling Hill Tracts ...	Darjeeling ...	22·972	—	+·060	Variable	325 0	67 1	12th "	48·1	16th "	65·7	53·7	59·8	+3·9	59·2
North Behar.	Purneah ... ..., North Bhagulpore ...	Purneah ...	29 617	29·743	—·010	ENE	43·6	107·3	12th "	74·4	16th "	104·2	77·3	90·8	+7·8	85·9
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ..	29·563	29 739	—·017	ESE	140·0	105·9	11th May	79·3	16th "	104·0	82·2	93 1	+8·2	86·1
	Chumparun . ..	Motihari ..	29·493	29·720	—·020	ESE	224·9	109 8	12th "	69·8	17th "	106·1	74·9	90·5	+6·4	85·4
	Sarun ...	Chupra ..	29·521	29 711	—·026	Calm	—	118·2	11th "	77·1	17th "	109·6	80·4	95·0	+8·1	93 4
South Behar.	Shahabad	Dehree ..	29·375	29·720	+·004	W	243·7	114·0	11th & 12th	81·4	12th "	111·3	84·5	97·9	+8·6	98·3
		Buxar ..	29·474	29·713	—·009	W & NW	113·5	111·9	11th "	78·2	17th "	108·8	82·0	95·4	+6·7	92·3
		Arrah ...	29·532	29·726	+·008	Calm	78 4	113·4	12th "	77·1	17th "	110·0	80 5	95 2	+6 6	91 3
	Gya	Gya ..	29·304	29 734	+·028	Calm & South-Westerly.	126·0	114·6	11th "	81·3	17th "	111·5	85 7	98·6	+7·3	96·1
	Patna	Bankipore .	29 583	29·714	—·013	Variable	85·7	113·7	11th "	77·7	16th "	110·8	81·6	96·2	+7·9	91 1
	South Bhagulpore ., Monghyr	Bhagulpore ...	29·548	29·709	—·025	Variable	85·0	109·3	12th "	77·0	17th "	106 9	79·1	93·0	+8·0	86·6
Chota Nagpore.	Sontha Pergunnahs ...	Doomka ...	29·232	29 719	+·010	SW	132 4	113·4	11th "	78·7	15th "	110·5	82·5	96·5	+19 6?	92·2
	Hazaribagh	Hazaribagh	27·782	29 729	+·045	Westerly	757·9	109·0	11th "	79·5	16th "	106·0	82·1	94 1	+8·1	94·9
	Lohardugga ... ..., Manbhoom	Ranchee ...	27 666	29 734	+·024	Calm	151·1	107 5	12th & 13th May.	77·9	15th "	104·7	80·6	92·7	+7·9	91·5
	Singbhoom	Chyebassa ...	28·993	29·741	+·012	WSW	82·1	115·0	13th "	79·9	15th "	111·6	84·3	98·0	—21·1?	92·9
Assam.	Assam	Sibsagar ...	29·523	29·864	+·029	NE	—	85·6	16th "	66·4	13th "	78·7	69·8	74·3	—3·4	71·8
		Dhubri ...	29·684	29·503	—·004	Calm & NE	241·0	90·2	13th "	66·9	16th "	87·3	72·7	80·0	+1·9	76·8
		Silchar ...	29 754	29·861	+·037	Calm	69·6	91·5	11th & 13th May.	64·8	16th "	88·6	71·2	80·0	+6·5	77·4

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past [illegible] [illegible] divided by the number of stations. A rainy day is one on which [illegible] of an inch fall.

for the week ending Friday, the 17th of May 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for year.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District Observations. Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
81	5·9	Nil	0·01	0·64	0·01	1·81	–1·80	0·01	0·20	–0·19	0·5	1·3	Poore ...	Pooree	Orissa.
86	8·4	0·05											Gopalpore ...		
88	6·1	0·08											False Point ...		
89	8·6	Nil	0·46	0·60	0·57	1·61	–1·04	0·47	0·15	+0·32	0·5	1·5	Cuttack ...	Cuttack	
88	0·0	0·58	0·86	1·03	1·09	2·57	–1·48	0·55	0·36	+0·19	1·5	1·9	Balasore ...	Balasore	
88	8·7	0·03	0·35	1·13	0·35	2·84	–2·49	0·85	0·82	+0·03	0·7	1·8	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
70	1·7	0·19	0·21	1·34	0·37	3·33	–2·96	0·21	0·26	–0·05	1·3	1·8	Midnapore ..	Midnapore	
78	4·7	5·09	0·28	1·37	0·29	3·42	–3·13	0·24	0·38	–0·14	1·0	2·0	Calcutta ..	24-Pergunnahs... ...; Howrah ... ...; Hooghly	
71	4·4	2·16	0·76	1·03	0·76	2·74	–1·98	0·76	0·33	+0·43	0·7	1·7	Burdwan ...	Burdwan	
67	2·4	1·21	1·29	0·84	1·20	2·08	–0·88	1·06	0·24	+0·82	1·8	1·4	Bankoora ..	Bankoora	
83	1·4	0·15	0·24	0·68	0·24	1·65	–1·41	0·24	0·23	+0·01	0·5	1·6	Raneegunge ...	Beerbhoom ... ...; West Burdwan ...	
81	2·4	5·01	2·21	0·88	2·44	2·50	–0·06	2·16	0·34	+1·82	1·7	1·8	Berhampore ..	Moorshedabad	
72	6·3	0·11	0·87	1·22	1·39	3·17	–1·78	0·59	0·33	+0·26	2·0	2·3	Krishnaghur ...	Nuddea	
77	6·0	0·48	0·58	1·46	0·80	3·90	–3·10	0·36	0·39	–0·03	1·3	2·1	Jessore ..	Jessore ... ...; Khoolna	
79	6·6	0·66	0·45	2·30	4·37	5·39	–1·02	0·35	0·65	–0·30	2·0	2·8	Chittagong .	Chittagong	East Bengal.
				2·23		6·07			0·65			2·6	Demagiri ...	Chittagong Hill Tracts	
82	5·6	0·88	0·87	1·72	0·91	4·33	–3·42	0·87	0·53	+0·34	1·0	2·7	Barrisal ...	Backergunge	
73	7·4	0·37	0·80	2·77	1·72	6·34	–4·62	0·60	0·68	–0·08	1·5	2·9	Noakholly	Noakholly	
81	3·9	0·32	0·28	1·75	2·18	4·84	–2·66	0·26	0·47	–0·21	1·7	2·6	Furreedpore ..	Furreedpore	
81	7·3	1·67	1·42	2·20	4·02	5·40	–1·38	0·86	0·58	+0·28	2·8	2·9	Dacca .	Dacca	
81	4·7	1·36	1·38	2·62	3·36	6·48	–3·12	0·50	0·48	+0·02	1·8	3·1	Commillah .	Tipperah	
85	6·6	3·22	2·68	2·23	4·39	5·54	–1·15	1·34	0·72	+0·62	3·6	3·2	Mymensingh .	Mymensingh	
70	6·4	0·52	0·70	1·27	1·17	3·64	–2·47	0·50	0·47	+0·03	2·3	2·2	Bogra ...	Bogra	North Bengal.
84	7·1	4·02	2·98	1·54	5·09	3·83	+1·26	2·92	0·54	+2·38	3·0	2·5	Serajgunge .	Pubna	
79	2·1	0·32	0·20	0·96	0·80	2·85	–2·05	0·11	0·38	–0·27	1·5	1·6	Rampore Beauleah	Rajshahye	
68	2·7	Nil	Nil	0·96	Nil	2·09	–2·09	Nil	0·42	–0·42	0·0	1·7	Maldah .	Maldah	
71	6·2	Nil	Nil	1·08	Nil	2·52	–2·52	Nil	0·47	–0·47	0·0	1·7	Dinagepore ...	Dinagepore	
79	3·6	0·81	0·87	2·15	1·20	5·02	–3·82	0·87	1·19	–0·32	1·3	2·6	Rungpore ...	Rungpore	
79	4·0	0·43	0·71	2·29	2·41	5·70	–3·29	0·37	1·23	–0·86	2·8	3·4	Julpigore ..	Julpigoree ... ...; Cooch Behar	
89	6·7	0·92	1·10	2·32	2·92	4·92	–2·00	0·30	0·69	–0·39	4·5	3·9	Darjeeling .	Darjeeling Hill Tracts	
67	1·3	Nil	Nil	1·04	Nil	2·38	–2·38	Nil	0·48	–0·48	0·0	1·4	Purneah .	Purneah ... ...; North Bhagulpore ...	North Behar.
			Nil	0·72	Nil	1·34	–1·34	Nil	0·23	–0·23	0·0	1·1	Mozufferpore	Mozufferpore	
83	10·7	Nil	Nil	0·32	Nil	1·48	–1·48	Nil	0·24	–0·24	0·0	1·2	Durbhunga ...	Durbhunga	
61	1·1	Nil	Nil	0·63	Nil	0·48	–1·48	Nil	0·24	–0·24	0·0	1·3	Motihari .	Chumparun	
41	0·6	Nil	Nil	0·38	Nil	1·10	–1·10	Nil	0·16	–0·16	0·0	0·6	Chupra ...	Sarun	
27	10·4	Nil											Dehree ...		South Behar.
24	1·1	Nil	Nil	0·22	Nil	0·54	–0·54	Nil	0·07	–0·07	0·0	0·6	Buxar ...	Shahabad	
30	0·0	Nil											Arrah ...		
42	3·3	Nil	Nil	0·22	Nil	0·52	–0·52	Nil	0·12	–0·12	0·0	0·6	Gya ...	Gya	
44	1·4	Nil	Nil	0·32	Nil	0·82	–0·82	Nil	0·16	–0·16	0·0	0·8	Bankipore ...	Patna	
34	1·1	Nil	Nil	0·57	Nil	1·10	–1·10	Nil	0·26	–0·26	0·0	1·0	Bhagulpore ...	South Bhagulpore ...; Monghyr ..	
40	0·0	Nil	Nil	0·78	0·04	1·71	–1·67	Nil	0·31	–0·31	0·0	1·4	Doomka	Sonthal Pergunnahs...	
60	1·4	Nil		0·25	Nil	1·04	–1·04	Nil	0·06	–0·06	0·0	1·0	Hazaribagh ..	Hazaribagh	Chota Nagpore.
36	8·9	0·08	Nil	0·49	Nil	0·86	–0·86	Nil	0·21	–0·21	0·0	1·2	Ranchi ...	Lohardugga	
			0·11	0·68	0·11	1·35	–1·24	0·10	0·24	–0·14	0·5	1·5		Manbhoom	
47	1·3	Nil	1·24	0·30	1·24	1·85	–0·61	1·24	0·32	+0·92	1·0	2·2	Chyebassa ...	Singhbhoom	
67	9·4	6·73											Sibsagar	Assam	Assam.
64	4·9	1·47											Dhubri		
86	7·6	4·04											Silchar		

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 17th of May 1889.

Meteorological division.	District.	Station.	RAINFALL. Saturday, 11th May 1889.	Sunday, 12th May.	Monday, 13th May.	Tuesday, 14th May.	Wednesday, 15th May.	Thursday, 16th May.	Friday, 17th May.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·28	Nil	0·16
		Khurdah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·76	Nil	0·36
		Banpur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·34	Nil	0·05
		False Point ...	......	......	......	......	0·06	......	0·01	2	0·04	0·04	1·66	0·04	0·34
		Gop ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
		Pipli ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
	Cuttack	Jagatsingpore	......	......	......	......	......	......	......	Nil	Nil	Nil	1·04	Nil	0·08
		Banki ...	......	......	......	0·06	......	......	......	1	0·06	0·21	0·57	Nil	0·06
		Cuttack ...	......	......	......	......	......	......	2·30	1	2·30	2·30	1·57	2·30	0·18
		Kendrapara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	2·18	Nil	0·23
		Jajpore ...	......	......	......	......	......	......	......	Nil	Nil	0·36	2·14	Nil	0·18
		Dharmsala ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
		Salipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
	Balasore ..	Chandbali ...	......	......	......	......	0·70	......	......	1	0·70	0·70	2·80	0·70	0·26
		Bhuddruck ...	......	......	......	......	......	0·70	......	1	0·70	0·96	2·73	0·70	0·61
		Sorah ...	......	......	......	......	0·40	......	0·06	2	0·46	0·51	2·44	0·46	0·42
		Balasore ..	......	......	......	0·19	0·33	......	0·34	3	0·86	1·90	2·60	0·67	0·44
		Jellasore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·89	Nil	0·24
		Baripodah ...	......	......	......	2·02	......	0·40	......	2	2·42	2·42	2·99	0·40	0·16
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	2·71	Nil	0·78
		Saugor Island	......	......	......	......	0·08	......	......	1	0·08	0·48	2·31	0·08	0·28
		Tumlook ...	......	......	......	......	0·30	......	......	1	0·30	0·30	2·96	0·30	0·33
		Midnapore ...	......	......	......	......	0·22	......	......	1	0·22	0·37	3·36	0·22	0·23
		Ghattal ...	......	......	......	......	0·06	0·06	......	2	0·12	0·42	3·62	0·12	0·22
		Kukrahaty ...	......	......	......	......	0·78	......	......	1	0·78	0·78	?	0·78	?
		Heria ...	......	......	......	......	0·23	......	......	1	0·23	0·23	?	0·23	?
		Bhagwanpore	......	......	......	......	0·31	......	......	1	0·31	0·31	?	0·31	?
		Garbetta ...	......	......	......	......	0·50	......	......	1	0·50	0·50	?	0·50	?
	24-Pergunnahs	Diamond Harbour ...	......	......	......	......	1·02	......	......	1	1·02	1·02	3·32	1·02	0·41
		Canning Town	......	......	......	......	0·75	......	......	1	0·75	0·75	?	0·75	?
		Alipore Jail ...	......	......	......	......	0·12	......	......	1	0·12	0·12	3·28	0·12	0·30
		Barrackpore...	......	......	......	......	0·60	......	......	1	0·60	0·60	3·21	0·60	0·19
		Dum-Dum ...	......	......	......	......	0·09	......	......	1	0·09	0·09	3·36	0·09	0·29
		Baraset ..	......	......	......	......	0·49	......	......	1	0·49	0·57	3·38	0·49	0·60
		Busserhat ...	......	......	......	......	0·40	......	......	1	0·40	0·40	3·40	0·40	0·47
	Howrah ..	Howrah ..	......	......	......	0·05	......	......	......	1	0·05	0·05	3·28	Nil	0·31
		Mohesraka (*Ooloberiah.*)	......	......	......	......	0·12	......	......	1	0·12	0·12	4·27	0·12	0·60
	Hooghly ..	Serampore ...	......	......	......	......	0·47	......	......	1	0·47	0·50	3·11	0·47	0·23
		Hooghly ...	......	......	......	0·40	......	......	......	1	0·40	0·40	3·52	Nil	0·35
		Jehanabad ...	......	......	......	......	0·07	......	......	1	0·07	0·07	2·91	0·07	0·49
	Burdwan ..	Culna ..	......	......	......	......	0·12	......	......	1	0·12	0·12	2·99	0·12	0·34
		Burdwan ...	......	......	......	......	2·16	......	......	1	2·16	2·16	2·45	2·16	0·29
		Cutwa ...											2·79		0·33
		Raneegunge ..	......	......	......	......	0·15	......	......	1	0·15	0·15	1·46	0·15	0·29
		Mankur ...	......	......	......	......	1·05	......	......	1	1·05	1·05	?	1·05	?
	Bankoora ..	Bankoora ...	......	......	......	......	0·61	0·60	......	2	1·21	1·21	1·84	1·21	0·21
		Bishenpore ...	......	......	......	......	0·22	0·94	......	2	1·16	1·16	3·06	1·16	0·30
		Maliara ...	......	......	......	0·57	......	......	......	1	0·57	0·57	1·61	Nil	0·13
		Khatra ...	......	......	......	......	0·52	1·35	......	2	1·87	1·87	1·81	1·87	0·30
		Indas ...	......	......	......	0·96	0·37	......	......	2	1·36	1·36	?	0·37	?
		Kotalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
		Asua ...	......	......	......	0·08	0·10	......	......	2	0·18	0·18	?	0·10	?
		Gangajalghati	......	......	......	......	0·43	......	......	1	0·43	0·43	?	0·43	?
		Raipore ...	......	......	......	......	0·35	0·15	......	2	0·50	0·50	?	0·50	?
		Sonamukhi ..	......	......	......	......	2·85	0·29	......	2	3·14	3·14	?	3·14	?
	Beerbhoom .	Bh. Soory ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·71	Nil	0·20
		Hetampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·49	Nil	0·15
		Rampore Haut	......	......	......	......	......	0·80	......	1	0·80	0·80	1·94	0·80	0·27
		Bolpore ...	......	......	......	......	0·70	......	......	1	0·70	0·70	?	0·70	?
		Murarai ...	......	......	......	......	......	......	......	Nil	Nil	0·20	?	Nil	?
	Nuddea ..	Ranaghat ..	......	......	......	0·09	......	......	......	1	0·09	0·09	2·76	Nil	0·38
		Kishnaghur ...	......	......	......	......	0·02	......	0·10	2	0·12	0·12	3·27	0·12	0·32
		Chooadanga ...	......	......	......	......	1·25	......	0·05	2	1·30	1·96	3·57	1·30	0·30
		Meherpore ...	......	0·68	......	0·64	0·25	......	......	3	1·57	2·17	2·73	0·25	0·22
		Kooshtea ..	......	......	......	......	0·40	0·86	......	2	1·26	2·61	3·47	1·26	0·41
	Khoolna ..	Satkhira ...	......	......	......	0·41	......	......	......	1	0·41	0·41	3·45	Nil	0·16
		Bagirhat ...	......	......	......	......	0·28	......	......	1	0·28	0·28	4·06	0·28	0·42
		Khoolna ...	......	......	......	......	0·22	......	......	1	0·22	0·22	4·19	0·22	0·35
	Jessore ..	Narail ..	......	......	......	......	0·55	......	......	1	0·55	0·55	4·34	0·55	0·40
		Jessore ...	......	......	......	......	0·48	......	......	1	0·48	0·56	4·28	0·48	0·34
		Jhenidah ...	......	......	......	1·31	......	0·19	......	2	1·50	2·29	3·66	0·19	0·60
		Magoorah ...	......	......	......	......	0·72	0·06	......	2	0·78	1·68	4·34	0·78	0·54
		Bongong ...	......	......	......	......	0·41	......	......	1	0·41	0·41	2·96	0·41	0·13
	Moorshedabad	Kandi ...	......	......	......	......	0·30	......	......	1	0·30	0·30	2·30	0·30	0·24
		Berhampore ...	......	0·24	......	......	0·50	4·27	......	3	5·01	5·01	2·24	4·77	0·42
		Lalbagh ...	......	......	......	......	0·64	2·96	......	2	3·60	3·60	2·76	3·60	0·33
		Azimgunge ...	......	......	......	......	0·04	2·26	......	2	2·30	2·86	2·89	2·30	0·48
		Jungipore ..	......	......	......	......	......	0·87	......	1	0·87	1·26	2·30	0·87	0·23
		Lalgola ..	......	......	......	......	......	1·15	......	1	1·15	1·60	2·59	1·15	0·34
		Jiagunge ..	......	......	......	......	0·02	1·80	......	2	1·82	2·44	?	1·82	?
		Akhrigunj ...	......	......	......	......	......	0·88	......	1	0·88	0·96	?	0·88	?
		Patkabari .	......	0·50	......	1·00	......	0·60	......	3	2·10	2·90	?	0·60	?
EAST BENGAL	Chittagong ...	Cox's Bazar ..	......	......	......	0·29	0·10	......	......	2	0·39	5·10	5·56	0·10	0·62
		Chittagong ..	......	......	......	......	0·49	0·10	......	2	0·59	5·02	5·22	0·59	0·64
		Kutubdia ..	......	......	......	......	0·46	......	......	1	0·46	2·64	?	0·46	?
		Satkanya	......	......	......	......	......	......	......				?		?
	Chittagong Hill Tracts.	Rangamati .	......	......	......	......	1·75	......	......	1	1·75	3·75	4·12	1·75	0·49
		Ruma											6·60		0·81
	Backergunge	Patuakhally		......	......	......	0·65	......	......	1	0·65	0·6[illegible]	4·41	0·65	0·60
		Perozepore		......	......	......	0·96	......	......	1	0·96	0·96	4·37	0·96	0·60
		Burrisal		......	......	......	0·93	......	......	1	0·93	0·97	4·51	0·93	0·64
		Bhola		......	......	......	0·91	......	......	1	0·91	1·03	4·06	0·91	0·59

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 17th of May 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 11th May.	Sunday, 12th May.	Monday, 13th May.	Tuesday, 14th May.	Wednesday, 15th May.	Thursday, 16th May.	Friday, 17th May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Bauphal ..	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Noakholly	Noakholly	...	...	...	0·39	...	...	...	1	0·39	0·78	5·80	Nil	0·64
		Fenny ..	...	...	...	...	0·90	0·30	...	2	1·20	2·65	6·87	1·20	0·72
		Harishpore ...	...	...	...	...	0·74	...	...	1	0·74	1·14	?	0·71	?
		Ramganj ..	...	...	...	...	0·19	...	...	1	0·19	1·16	?	0·19	?
	Furreedpore	Madaripore ..	...	...	...	...	0·21	...	...	1	0·21	0·65	5·63	0·21	0·62
		Furreedpore ..	...	...	...	0·05	0·30	...	...	2	0·35	1·40	4·16	0·30	0·56
		Goalundo	...	...	...	...	0·13	0·43	...	2	0·57	4·50	1·45	0·56	0·54
	Dacca ...	Munshigunge	...	...	...	0·34	0·27	0·63	...	3	1·24	3·56	5·50	0·90	0·17
		Dacca	...	...	...	0·95	0·13	0·60	...	3	1·68	5·19	5·49	0·73	0·75
		Naraingunge	...	...	...	0·94	0·31	0·61	...	3	1·86	4·80	5·03	0·92	0·13
		Manickgunge	...	...	...	...	0·06	0·82	...	2	0·88	2·43	5·47	0·88	0·65
		Joydebpore .	...	...	...	1·56	1·13	0·43	...	3	3·12	8·82	?	1·56	
	Hill Tipperah	Agartola ..	...	...		1·95	...			1	1·95	4·17	6·74	Nil	0·36
	Tipperah ..	Comilla ..	...	...	...	1·34	0·10	...	...	2	1·64	3·40	6·13	0·10	0·33
		Chandpore ..	...	...	...	...	0·20	...		1	0·20	1·30	6·78	0·20	0·46
		Brahmunberia	...	...	...		1·36	0·06	0·11	3	1·53	4·45	6·74	1·53	0·78
		Ramchandra-pore.	...	...	...	0·09	1·50	0·23	...	3	1·82	3·29	?	1·73	?
		Nasirnagar ...	...	...	...	...	2·30		...	1	2·30	6·10	?	2·30	?
		Daudkandi .	...	...	...	0·50	0·30	0·50	...	3	1·30	3·05	?	0·80	?
		Kasba .	...	...	...	...	1·70	...		1	1·70	3·97	?	1·70	?
		Laksham ..	...	...	...	...	0·65	...	...	1	0·65	0·65		0·65	?
	Mymensingh .	Kishoregunge	...	...	...	0·22	1·17		0·85	3			6·04		[illegible]
		Atia (*Tangail*)	...	...	1·09	1·28	1·85	...		3	4·22	8·37	4·15	1·85	0·70
		Mymensingh	...	...	0·50	1·23	0·61		1·00	4	3·34	3·99	5·65	1·61	0·61
		Jamalpore ..	...	...	0·28	0·52	0·96	...		3	1·76	2·07	5·55	0·96	0·73
		Netrokona ...	...	0·05	1·20	0·32	0·22		0·05	5	1·84	3·10	6·50	0·27	0·81
		Subornakhali	...	0·05	...	0·11	1·42	1·20	...	4	2·78	3·87	?	2·62	?
		Durgapore	...	...	...	0·66		0·45	...	2	1·11	3·07	?	0·45	
		Sherepore Town	...	...	1·03	0·34	0·43	...		3	1·80	2·05	?	0·43	?
		Dewanganj	...	...	0·30	0·50		...	...	2	0·80	0·80	?	Nil	?
NORTH BENGAL.	Pubna	Pubna ..	...	...	...	...	0·05	0·06	...	2	0·11	3·48	3·85	0·11	0·56
		Serajgunge ..	...	0·05	...	0·06	4·23	1·50	...	4	5·84	6·67	3·79	5·73	0·52
	Bogra	Sherpore .	...	0·15	...	0·07	0·08	0·04	...	4	0·34	0·86	3·84	0·12	0·41
		Nowkhilla ...	...	0·07	...	0·35	0·26	1·05	...	4	1·73	2·68	3·51	1·31	0·32
		Bogra ...	...	...		0·16	0·55	...		2	0·71	0·71	4·10	0·55	0·58
		Panchbibi	...	...	...	...	...	...		Nil	Nil	Nil	3·57	Nil	0·57
	Rajshahye	Beauleah .	...	0·01	...	...	0·31	...	...	2	0·32	1·38	2·82	0·31	0·48
		Nattore	...	0·09	...	...	...	...	...	1	0·09	0·24	3·73	Nil	0·46
		Naogaon .	...	...				0·01	...	1	0·01	0·01	2·00	0·01	0·17
		Lalpore ...	...	...	...	...		...	...	Nil	Nil	0·45	?	Nil	?
		Manda .	...	...		...	...		...	Nil	Nil	Nil	?	Nil	?
	Maldah ..	Maldah	...	...	...		...	...	...	Nil	Nil	Nil	1·85	Nil	0·23
		Chanchal ...	...	...	...	...		...		Nil	Nil	Nil	2·32	Nil	0·61
		Gajol ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Sibganj ..	...	...	...	...	...	0·50	...	1	0·50	0·50	?	0·50	
	Dinagepore ..	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	Nil	3·53	Nil	0·27
		Churamon ..	...	...	...	...	...	...		Nil	Nil	Nil	2·23		0·45
		Raigunge ..	...	...	...	...	...	...	...	Nil	Nil	Nil	2·85	Nil	0·36
		Dinagepore	...	...	...	...	...	...	...	Nil	Nil	Nil	2·87	Nil	0·63
		Baloorghat	...	...	...	...	...		...	Nil	Nil	Nil	1·65	Nil	0·62
		Thakoorgaon	...	...	...	...	...		...	Nil	Nil	Nil	?	Nil	?
	Rungpore ..	Bhawanigunge (*Gyabanda*)	...	...	...	...		0·62	...	1	0·62	0·76	4·65	0·62	1·22
		Rungpore ...	...	...	...	...	...	0·90	...	1	0·90	0·93	4·35	0·90	1·08
		Kurigram ..	...	...	...		0·51	1·40	...	2	1·91	3·04	6·86	1·91	1·45
		Bagdogra (*Nilphamari*) .	...	...	...	...	...	0·06	...	1	0·06	0·06	4·23	0·06	1·01
		Ulipore ..	...	0·03	...	...	0·26	0·60	...	3	0·80	1·69	?	0·86	?
	Julpigoree ..	Julpigoree ..	...	...	0·07	0·01	...	0·36	...	3	0·44	1·51	4·06	0·38	0·64
		Alipore Door	...	...	0·64	...	...	...	...	1	0·64	1·95	?	Nil	?
		Fallacotta ...	0·24	...	...	...	...	0·31	...	2	0·55	4·18	?	0·31	?
		Debiganj ...	...	...	...	...	...	...	...	Nil	Nil	1·15	?	Nil	?
		Bhagatpore (Nagrakatta).	...	0·59	...	0·44	0·08	...	0·37	4	1·48	3·32	?	0·45	?
	Cooch Behar.	Dinhatta	0·02	0·44	...	...	...	0·16	...	3	0·62	2·61	6·00	0·16	1·52
		Cooch Behar..	...	0·85	...	...	...	0·23	...	2	1·08	3·67	7·30	0·23	1·51
		Mekligunge..	...	...	...	...	...	...	0·36	1	0·36	0·72	4·86	0·36	1·06
		Matabhanga...	0·18	...	0·03	0·08	0·27	...	0·17	5	0·73	3·52	6·30	0·44	1·42
	Darjeeling Hill.	Buxa .	0·14	0·65	0·34	0·45	0·18	0·13	0·05	7	1·94	6·63	8·38	0·36	1·71
		Silliguri ..	...	0·14	0·18	...	0·13	0·15	...	4	0·60	0·64	3·52	0·28	0·33
		Darjeeling ...	0·06	0·04	0·03	0·37		0·37	...	5	0·87	1·98	4·40	0·37	0·24
		Kalimpong ..	...	...	0·83	...	...	0·18	...	2	1·01	2·46	3·37	0·18	0·41
NORTH BEHAR	Purneah ..	Kissengunge...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·71	Nil	0·46
		Arrareah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·97	Nil	0·57
		Purneah .	...	...	...	...	...	...	...	Nil	Nil	Nil	1·92	Nil	0·43
		Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Manari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	
		Kaliaganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	North Bhagulpore.	Maddhipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·22	Nil	0·52
		Supool ...	...	...	...	...	...	...	...	Nil	Nil	Nil	2·11	Nil	0·40
		Protabganj ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Durbhunga	Tajpore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·31	Nil	0·12
		Durbhunga ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·49	Nil	[illegible]
		Madhubani ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·65	Nil	0·37
		Bahera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Roshera ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·34	Nil	0·28
		Mozufferpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·51	Nil	0·21
		Hajipore ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0·97	Nil	0·25
		Paru ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Mahua ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Sheohar ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
		Pupri ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Chumparun...	Motihari ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·29	Nil	0·23
		Bettiah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	1·66	Nil	0·25
		Bagaha ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	
		Burhurwa ...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 17th of May 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 11th May 1889.	Sunday, 12th May.	Monday, 13th May.	Tuesday, 14th May.	Wednesday, 15th May.	Thursday, 16th May.	Friday, 17th May.	Total. Number of rainy days.	Rainfall of week.	Total rain fall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar—concluded	Sarun	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	Nil	1·70	Nil	0·22
		Sewan	...	...	...	...	...	...	...	Nil	Nil	Nil	0·82	Nil	0·12
		Chupra	...	...	...	...	...	...	...	Nil	Nil	Nil	0·74	Nil	0·14
South Behar	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·40	Nil	0·03
		Dehree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·36	Nil	0·06
		Bhabooah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·08	Nil	0·12
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	Nil	0·57	Nil	0·09
		Arrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·68	Nil	0·06
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·14	Nil	0·07
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·58	Nil	0·13
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·70	Nil	0·17
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·55	Nil	0·10
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Pakribarawan	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·81	Nil	0·20
		Dinapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·59	Nil	0·14
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·84	Nil	0·09
		Barh	...	...	...	...	...	...	...	Nil	Nil	Nil	1·04	Nil	0·21
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	Monghyr	Begoosarai	...	...	...	...	...	...	...	Nil	Nil	Nil	1·08	Nil	0·25
		Monghyr	...	...	...	...	...	...	...	Nil	Nil	Nil	1·03	Nil	0·21
		Jamui	...	...	...	...	...	...	...	Nil	Nil	Nil	1·00	Nil	0·23
		Gogri	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	South Bhagulpore	Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1·10	Nil	0·14
		Banka	...	...	...	...	...	...	...	Nil	Nil	Nil	1·31	Nil	0·19
		Kolgong	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	Sonthal Pergunnahs	Raimenai	...	...	...	...	...	...	...	Nil	Nil	Nil	2·48	Nil	0·33
		Gedda	...	...	...	...	...	...	...	Nil	Nil	Nil	1·40	Nil	0·32
		Pakour	...	...	...	...	...	...	...	Nil	Nil	0·22	1·15	Nil	0·21
		Nya Doomka	...	...	...	...	...	...	...	Nil	Nil	Nil	1·52	Nil	0·31
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	1·62	Nil	0·43
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	Nil	1·70	Nil	0·25
		Mohasama	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Nangnai	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
Chutia Nagpur.	Hazaribagh	Pachamba (*Giridi*).	...	...	...	...	...	...	...	Nil	Nil	Nil	0·87	Nil	0·14
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·83	Nil	0·04
		Semtaguran	...	...	...	...	...	...	...	Nil	Nil	Nil	1·23	Nil	0·02
		Manudi Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0·85	Nil	0·07
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	1·43	Nil	0·04
		Barhi	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Chatra	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Ramghur	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
	Lohardugga.	Lohardugga	...	...	...	...	...	...	...	Nil	Nil	Nil	0·94	Nil	0·47
		Ranchi	...	...	...	...	...	...	...	Nil	Nil	Nil	1·24	Nil	0·10
		Palamow	...	...	...	...	...	...	...	Nil	Nil	Nil	0·41	Nil	0·07
		Sills	...	...	...	...	...	...	0·30	1	0·30	0·30		0·30	
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Hossainabad	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Garwah	...	...	...	...	...	...	...						
	Singhbhoom	Chyebassa	...	...	...	...	...	...	1·24	1	1·24	1·24	1·85	1·24	0·32
		Chakradharpore.	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Ghatsilla	...	...	...	...	0·10	...	...	1	0·10	0·10		0·10	
		Baharagura	...	...	...	...	...	0·42	...	1	0·42	0·42		0·42	
	Manbhoom	Purulia	...	...	...	...	0·21	...	...	1	0·21	0·21	1·77	0·21	0·27
		Gobindpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·93	Nil	0·21
		Raghunathpore.	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Barrabhoom	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Jhalda	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	
		Chas	...	...	...	...	...	...	...	Nil	Nil	Nil		Nil	

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 21*st May* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 17TH MAY 1889.

AT the close of the previous week abnormally high temperature and rather low pressures were reported over the greater part of Bengal At the southern stations also exceedingly strong and very moist winds were reported, and these were bringing up large amounts of moisture over the province. Weather over the greater part of the province was fine, and no rain was falling except at a few stations in and near the hills in North Bengal. On the 11th a further fall of pressure took place, and the stations in the west of the province showed decidedly low pressures, and indeed they formed part of an area of barometric depression which stretched into the North-West Provinces. On the 12th pressure increased briskly over the greater part of Bengal and Assam, but still the low-pressure area in the west of the province was well marked. On the 13th pressure commenced to fall again, but the distribution over the province became rather altered and on this day the lowest pressures were reported from Bhagulpore, Ranigunge, and Bankoora, and winds also showed a slight tendency to cyclonic circulation round the low pressure. This was followed by the development of a few local storms in East and South-West Bengal, but in most instances the storms were not of much importance. On the 14th a further and somewhat rapid fall of pressure took place over Bengal, and a shallow general low-pressure area was apparently formed Following on this, local storms became general at almost every station in South-West and East Bengal, while they were also fairly numerous in the Patna and Bogra districts of North Bengal. On the 15th pressure rose, but the shallow depression was not entirely filled up, and local storms again occurred; but they were not so numerous as on the previous day, though some in the Moorshedabad district were particularly heavy, and Berhampur itself received 4 27 inches of rain On the 16th again pressure increased, and this continued on the 17th over the greater part of the province, and on this day the feeble depression which had previously existed had more then filled up, and pressure had become high and decidedly above the normal in all districts, the excess being larger than a tenth of an inch in Chutia Nagpur, Orissa, and in South and East Bengal and Assam. With this changed distribution local storms almost entirely ceased to occur, and weather became generally fine except in Assam, where rain continued to fall. The wind systems blowing over the province have not changed to any material extent during the week, except in so far as becoming on some days slightly more westerly or more easterly in direction For the greater part of the week strong southerly and south-westerly winds have been blowing in the south-western districts, and south-easterly winds in the eastern and south-eastern districts, and more or less easterly winds in the north of the province. Winds have also continued decidedly strong at the head of the Bay, and the wind velocities at Saugor Island have generally averaged from 25 to 30 miles an hour. Temperature has also continued decidedly high, though in those districts where local storms occurred, temperature fell to some extent, but for the greater part of the week the mean temperature of the province has been largely in excess of the normal.

Conditions during the week have therefore again not been favourable for general rainfall, and though moderately heavy rain has fallen in East, South-West and North Bengal, and lighter rain in Orissa, Chutia Nagpur has been almost rainless, and Behar absolutely rainless. In Assam, on the other hand, heavy rain has continued to fall.

Pressure.—The general variations of pressure during the week have already been referred to. For the whole province of Bengal for the week the mean pressure has been above the normal by 0·016 inch; but while at the southern stations the excess pressure has equalled about 0·04 inch, at the northern stations pressure has been in defect of the normal by about 0 01 inch. In Assam pressure has been in excess by 0·02 inch.

Temperature—Has been above the normal almost throughout the week in all districts except Assam. The mean temperature for the whole province of Bengal has been nearly 6° in excess of the normal for the week, while in Behar and Chutia Nagpur the excess has almost equalled 8°. Very high maximum temperatures have continued to be recorded throughout the week, the highest being 115·5° at Ranigunge for the three days 11th to the 13th. In Assam the mean temperature has been very nearly normal.

Rainfall.—The heaviest rainfall has occurred in East Bengal, the stations in which average 1·40 inches; this, however, is only about two-thirds of the normal fall for the week. In South-West Bengal the average fall has been 0·75 inch, again about two-thirds of the normal In North Bengal the fall equals 0·65 inch, but it has been unequally distributed, and Maldah and Dinagepur have received no rain at all, while Pubna has received decidedly heavy rain. In Orissa an average fall of 0·28 inch is recorded, but Pooree and Cuttack districts have received practically no rain, while in Balasore district the fall averages 0 74 inch. In Chutia Nagpur a few showers only fell in the Singbhoom district, and Behar has been rainless.

In Assam particularly heavy rain has fallen; Sibsagor has received 6·73 inches, Silchar 4·04 inches, and Dhubri 1 47 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 17th May 1889 :—

Meteorological Divisions.	Temperature: Highest observed during week.	Lowest observed during week.	Averages for week: Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Rainfall: Of week: Average.	Normal average.	Variation.	Rainy days: Average number in week.	Normal average number in week.	Variation.	Since 1st of month: Average.	Normal average.	Since 15th May 1889: Average.	Normal average.
Orissa	108·4	77·1	94·4	80·9	87·7	+2·8	0·50	0·78	—0·28	0·8	1·6	—0·8	0·60	1·97	0·34	0·24
South-West Bengal ...	115·5	69·8	104·2	80·6	92·4	+5·8	0·76	1·14	—0·38	1·3	1·9	—0·6	0·90	3·00	0·66	0·38
East Bengal ...	100·0	68·2	92·8	77·4	85·1	+4·6	1·40	2·20	—0·80	2·2	2·9	—0·7	3·23	5·49	0·90	0·60
North Bengal	110·3	51·9	99·4	75·7	87·5	+5·0	0·65	1·55	—0·90	1·6	2·3	—0·7	1·35	3·90	0·54	0·72
North Behar ...	113·2	69·8	106·0	78·7	92·4	+7·6	Nil	0·76	—0·76	0·0	1·2	—1·2	Nil	1·66	Nil	0·30
South Behar ...	114·6	77·0	110·0	82·3	96·1	+7·5†	Nil	0·45	—0·45	0·0	0·9	—0·9	0·01	0·99	Nil	0·13
Chutia Nagpur ...	109·0*	77·9*	105·4*	81·4*	93·4*	+8·0*	0·13	0·44	—0·31	0·2	1·3	—1·1	0·13	1·13	0·13	0·16
Assam	91·5	64·8	84·9	71·2	78·1	—0·3										

* Chyebassa not included.
† Doomka not included.

Meteorological Office, Bengal;
The 21st May 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 12th to 18th May 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature: Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry: Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May ..	12th .	29·765	89·1	95·5	12·9	82·6	89·6	82·5	1·016	79·7	73	Nil
,,	13th ..	·758	89·3	95·5	12·5	83·0	92·6	84·5	1·077	81·5	71	,,
,, ...	14th ...	·746	88·8	95·5	13·5	82·0	92·1	84·3	1·072	81·4	71	,,
,, ..	15th ..	·791	85·0	95·0	20·0	75·0	90·6	82·5	1·003	79·3	70	0·11
,, ...	16th ...	·831	87·9	96·8	17·8	79·0	90·1	83·1	1·039	81·4	73	Nil
,, ...	17th ...	·858	89·4	98·2	17·6	80·6	92·8	81·5	·924	76·8	60	,,
,, ...	18th ...	·749	89·3	100·5	22·5	78·0	94·0	83·5	1·007	79·4	63	,,

				Inches.
The mean 10 A.M. pressure of the seven days	...	...	...	29·785
				°
The mean temperature of the seven days	...	...	...	88·4
The extreme variation of temperature	...	...	...	25·5
The maximum temperature	...	...	...	100·5
				%
The mean 10 A.M. relative humidity of the seven days		...	...	69
				Inches.
The total fall of rain from 12th to 18th May 1889		...	...	0·11

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, India;
The 20th May 1889.

A. Pedler,
For Offg. Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 12th to 18th May 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
May	12th	156 5	8·5	29·683	88·5	93 7	11·6	82·1	81·7	0·992	79 0	74	SSW and SW ...	347	Nil	Chiefly cloudy, o.
,,	13th	16 ·3	7 5	·674	88·9	94·6	12·2	82·4	82·2	1·011	79 6	75	SSW and SW ...	330	,,	Chiefly cloudy.
,,	14th	150·9	6·0	·665	86·9	94 0	12·0	82·0	80 8	0 975	78·5	76	SSW, SW and S ...	248	0·09	Chiefly cloudy, o, g, d, ꓘ.
,,	15th	153·5	6 8	·713	86·5	93·4	19 2	74 2	80·2	·948	77·6	76	SSW, SW and variable.	216	Nil	Chiefly cloudy, o, g.
,,	16th	157·0	8 2	·758	87·6	94 7	15·8	78·9	80·9	·966	78 2	74	SSW and SW .	188	,,	Chiefly cloudy.
,,	17th	153·8	9·0	·748	88·9	96·2	16·0	80·2	81·6	·982	78 7	73	SW and SSW ...	225	,,	Partially cloudy.
,,	18th	155·6	10 9	·680	88·0	98 5	20·7	77·8	78·3	·839	73 9	63	SW, SSW and S ..	268	,,	Clear

	Inches.
The mean pressure of the seven days	29·703
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·685
	Hours.
The total number of hours of bright sunshine	56·9
The maximum possible number of hours of sunshine	92·2
	°
The mean temperature of the seven days	87·9
The average temperature of the corresponding period for 24 years, S.-G.'s Office	86 3
The extreme variation of temperature	24·3
The maximum temperature	98·5
	Miles.
The highest velocity of the wind in one hour	20
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	8
	%
The mean relative humidity	73
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	72
	Inches.
The total fall of rain from 12th to 18th May 1889	0 09
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·04
The total fall from 1st January to 18th May 1889	4·94
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	7·31

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, ꓘ thunderstorm.

A. Pedler,

For Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 20th May 1889.

MEMORANDUM.

THE leading facts in connection with the mortuary statistics of the districts in Bengal for the month of January 1889 are the following:—

1. The deaths of 126,894 persons were registered out of a population of 66,055,695 in these districts, or at the rate of 23·04 per 1,000 per annum, against 30·12 per 1,000 in the preceding month, and 25·08 per 1,000 in the corresponding month of 1888, indicating, as compared with both the periods, a large reduction in the number of deaths registered.

2. The highest deaths-rates were returned from the undermentioned districts:—

Districts.	Ratio per *mille.*	*Districts.*	Ratio per *mille.*
Backerganj	34·68	Bogra	27·48
Noakhali	31·56	Puri	27·00
Jessore	31·80	Hughli including Serampore	26·40
Tipperah	31·[illegible]0	Midnapore	26·04
Julpaigori	30·72	Birbhum	25·80
Rungpore	30·36	Chittagong	25·68
Khulna	29·64	Howrah	25·56
Balasore	29·64	Murshidabad	25·56
Dinajpur	29·28	Dacca	25·44
Rajshahye	28·20	Pubna	25·32
Purneah	27·96		
Maldah	27·96		

3. The mortality from the specific diseases mentioned in the table appended below, indicates that fever prevailed with considerably less fatality during the month under notice as compared with the corresponding month of the preceding year The fatal results from the other diseases exhibited only fractional differences, excepting injury and the maladies returned under the head of "Other causes," the death-rates from which maintained the same ratios:—

	Ratio per *mille* during— January 1889.	Ratio per *mille* during— January 1888.
Cholera	1·08	·81
Small-pox	·10	·18
Fever	16·92	19·08
Bowel-complaints	·72	·84
Injury	·12	·12
Other causes	3·81	3·81

4. The following table shows the districts in which the death-rates from cholera, fever and "other causes" were highest:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Howrah	4·32	Julpaigori	29·04	Puri	18·36
Backerganj	4·20	Noakhali	28·56	Backerganj	12·00
Jessore	3·96	Rungpore	28·20	Tipperah	9·60
Tipperah	3·72	Dinajpur	27·60		
Khulna	3·60	Purneah	26·88		
24-Pergunnahs	3·48	Jessore	25·56		
Faridpore	3·12	Maldah	25·20		
Murshidabad	2·64	Rajshahye	24·36		
Midnapore	2·28	Pubna	23·52		
Nuddea	2·28	Bogra	22·20		
Dacca	2·28	Hazaribagh	21·36		
		Khulna	21·12		
		Chittagong	21·00		
		Murshidabad	20·04		

5. In relation to *Sex*, *Class* and *Age*, the rates of deaths during the month under notice stood as noted below:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·84	Christians	15·72	Under 1 year	176·28
Females	21·12	Hindus	21·36	1 and under 5 years	20·04
Ratio of male deaths to every 100 female deaths	115	Mahomedans	26·64	5 " 10 "	9·24
		Buddhists	18·60	10 " 15 "	9·24
		Other classes	18·12	15 " 20 "	14·16
				20 " 30 "	14·76
				30 " 40 "	17·28
				40 " 50 "	23·88
				50 " 60 "	34·68
				60 years and upwards	64·44

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 20th May 1889.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of January 1889

1	2	3			4							5							6		7		8		9
					MORTALITY ACCORDING TO—																				
					Disease.																Sex.				
DIVISIONS.	DISTRICTS.	POPULATION			DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
BURDWAN	Burdwan	668,295	723,528	1,391,823	75	5	1,876	58	8	434	2,456	·60	·03	16·08	·49	·06	3·72	21·12	25·32	29·28	1,275	1,181	22·80	19·56	107
	Bankura	507,136	534,616	1,041,752	27	21	1,238	43	9	299	1,637	·24	·24	14·16	·48	·09	3·36	18·84	19·44	21·24	912	735	21·24	16·44	122
	Birbhum	381,563	412,865	794,428	7	..	1,197	20	16	469	1,709	·08	...	19·00	·24	·24	7·08	25·80	31·80	33·36	902	807	28·33	23·40	111
	Midnapore	1,243,195	1,272,370	2,515,565	403	12	3,642	201	39	985	5,162	2·28	·04	17·28	1·32	·12	4·68	26·04	28·44	26·76	2,593	2,569	27·84	24·12	112
	Hughli	315,665	347,385	663,050	27		1,017	157	12	249	1,462	·48		18·36	2·76	·12	4·44	26·40	32·16	20·72	773	689	29·28	23·76	113
	Serampore	174,366	177,589	351,955	54	1	412	118	9	154	778	1·80	·02	14·04	5·04	·24	5·16	26·52	31·20	23·52	415	363	28·56	24·48	114
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	81	1	1,429	305	21	403	2,240	·84	·01	16·80	3·60	·24	4·68	26·40	31·80	28·20	1,188	1,052	29·04	24·00	112
PRESIDENCY	Howrah	316,479	318,902	635,381	231	...	537	287	18	284	1,357	4·32	..	10·08	5·40	·24	5·28	25·56	36·60	29·88	752	605	28·44	22·68	124
	24-Pergunnahs	975,430	894,429	1,869,859	543	4	2,308	385	63	598	3,901	3·48	·02	14·76	2·40	·39	3·72	24·96	40·92	34·32	2,228	1,673	27·36	22·44	133
	Nuddea	805,779	849,942	1,655,721	326	.	2,403	24	38	[illegible]	[illegible]	2·28		17·40	·12	·24	3·96	24·24	38·40	31·80	1,833	[illegible]	27·24	21·48	120
	Jessore	959,271	980,104	1,939,375	648		4,140	22	22	[illegible]	5,154	3·96		25·56	·12	·12	1·92	31·80	46·32	26·76	2,767	2,387	34·56	29·64	115
	Murshidabad	586,183	640,307	1,226,790	273	2	2,057	31	13	240	2,616	2·64	·01	20·04	·24	·12	2·28	25·56	35·16	25·76	1,339	1,277	27·36	23·88	104
	Khulna	568,402	511,546	1,079,948	331		1,904	41	22	374	2,672	3·60		21·12	·36	·24	4·08	29·64	45·00	35·16	1,385	1,287	29·16	30·12	107
RAJSHAHYE	Dinajpur	782,292	732,054	1,514,346	17		3,483	7	15	178	3,700	·12		27·60	·04	·10	1·32	29·28	47·64	42·72	1,929	1,771	29·52	28·92	103
	Rajshahye	660,226	678,412	1,338,638	205		2,724	9	25	[illegible]	3,149	1·80		[illegible]	·07	·12	1·56	28·20	[illegible]	41·88	1,636	1,513	29·64	26·76	109
	Rungpore	1,067,701	1,030,263	2,097,964	34	2	[illegible]	11	11	316	5,329	·12	·01	28·20	·06	·72	1·80	[illegible]	38·76	[illegible]	2,870	2,459	32·16	28·44	117
	Bogra	372,677	361,681	734,358	2		1,362	4	26	292	1,686	·02	..	22·20	·06	·36	4·68	27·48	30·72	38·28	874	812	28·08	26·88	107
	Pubna	648,311	663,417	1,311,728	75		2,583	19	14	82	2,773	·60	..	[illegible]	·12	·12	·72	25·32	32·64	29·16	1,588	1,185	29·28	21·36	134
	Darjiling	89,598	66,739	156,137	..		[illegible]	[illegible]	6	56	310		..	18·00	2·52	·36	2·76	23·76	28·20	27·72	167	143	22·32	25·68	116
	Jalpaiguri	305,555	276,007	581,562	4		1,400	8	5	65	1,494	[illegible]	.	29·04	·12	·12	1·32	30·72	43·44	39·84	807	687	31·68	29·76	117
DACCA	Dacca	1,033,863	1,082,487	2,116,350	423	1	[illegible]	101	21	[illegible]	4,487	[illegible]	·01	[illegible]	1·08	·10	[illegible]	25·44	33·60	21·72	2,328	2,159	27·00	23·88	107
	Faridpore	805,989	825,745	1,631,734	434	10	2,240	53	19	[illegible]	3,059	3·12	·07	16·44	·36	12	2·16	22·44	28·44	16·08	1,616	1,443	24·00	70·88	111
	Backergunj	973,479	927,410	[illegible]	682	8	[illegible]	65	51	1,904	[illegible]	[illegible]	·04	17·52	·36	·24	12·00	34·68	44·40	32·52	2,827	2,673	34·80	34·56	105
	Mymensing	1,553,397	[illegible]	3,051,966	277	75	[illegible]	94	[illegible]	[illegible]	5,471	·96	·24	19·92	[illegible]	12	2·04	21·48	24·00	32·40	2,972	2,499	22·92	19·92	118
CHITTAGONG	Chittagong	531,449	600,692	[illegible]	30		[illegible]	149	17	241	2,428	·36		21·00	1·44	13	2·52	25·68	23·40	20·88	[illegible]	1,164	28·44	24·16	[illegible]
	Noakhali	415,248	[illegible]	[illegible]	63		1,961	40	12	284	2,360	·84		[illegible]	·60	·12	4·08	34·56	38·64	23·32	[illegible]	1,195	33·72	35·28	97
	Tipperah	770,893	748,445	[illegible]	480	13	2,170	115	24	1,250	[illegible]	3·72	·24	16·32	·84	12	[illegible]	[illegible]	32·04	24·48	[illegible]	1,579	32·28	30·12	110
PATNA	Patna	[illegible]	[illegible]	[illegible]	8	37	[illegible]	137	–	[illegible]	[illegible]	·04	·24	11·16	·84	·12	3·60	16·20	20·16	15·60	1,316	1,069	18·36	14·28	123
	Gya	1,045,441	[illegible]	[illegible]	10	24	[illegible]	[illegible]	[illegible]	[illegible]	3,420	·04	12	16·44	·12	·24	2·64	[illegible]	31·00	17·64	1,796	[illegible]	[illegible]	18·00	110
	Shahabad	950,256	[illegible]	[illegible]	.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		·24	17·52	·24	·12	3·00	[illegible]	33·24	19·20	1,878	1,635	[illegible]	19·32	116
	Mozufferpore	[illegible]	[illegible]	[illegible]	[illegible]	4	2,108	107	[illegible]	[illegible]	[illegible]	·03	·01	9·72	·48	·12	1·56	12·00	17·40	10·08	1,464	1,140	[illegible]	10·32	128
	Durbhunga	[illegible]	[illegible]	[illegible]	5	6	[illegible]	103	17	[illegible]	[illegible]	·01	·02	[illegible]	·36	·07	·84	[illegible]	[illegible]	11·15	[illegible]	1,243	[illegible]	11·04	118
	Sarun	[illegible]	1,196,817	[illegible]		2	1,110	[illegible]	47	[illegible]	[illegible]		12	5·76	1·08	12	7·20	14·52	18·84	15·12	[illegible]	1,192	17·64	11·76	135
	Chumparun	[illegible]	[illegible]	[illegible]		70	[illegible]	[illegible]	[illegible]	400	[illegible]		[illegible]	[illegible]	·03	·12	[illegible]	[illegible]	24·12	17·28	[illegible]	[illegible]	[illegible]	12·12	123
BHAGULPORE	Monghyr	[illegible]	[illegible]	[illegible]		1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	17·25	[illegible]	·24	4·20	22·08	[illegible]	[illegible]	[illegible]	1,098	[illegible]	[illegible]	115
	Bhagulpore	879,119	[illegible]	[illegible]	1	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	·02	·10	17·40	12	12	[illegible]	21·36	[illegible]	23·70	[illegible]	[illegible]	[illegible]	[illegible]	120
	Purneah	[illegible]	[illegible]	[illegible]	24		[illegible]	7	11	[illegible]	[illegible]	·12	.	26·88	[illegible]	·08	·72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25·64	121
	Maldah	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	10	4	[illegible]	[illegible]	[illegible]		[illegible]	12	·06	1·14	[illegible]	[illegible]	[illegible]	[illegible]	741	[illegible]	[illegible]	124
	Sonthal Pergunnahs	[illegible]	[illegible]	[illegible]	2	1	[illegible]	[illegible]	11	[illegible]	[illegible]	·01	·007	[illegible]	·12	·06	1·20	11·76	[illegible]	[illegible]	911	[illegible]	[illegible]	[illegible]	144
ORISSA	Cuttack	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	1,181	[illegible]	12	[illegible]	11·40	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,615	[illegible]	21·12	[illegible]
	Puri	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	12	1·20	[illegible]	2·72	·24	[illegible]	27·00	27·24	[illegible]	[illegible]	[illegible]	27·00	27·12	[illegible]
	Balasore	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	·72	[illegible]	[illegible]	·12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CHOTA NAGPORE	Hazaribagh	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	12	·06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,044	27·72	22·32	[illegible]
	Lohardugga	[illegible]	[illegible]	[illegible]			[illegible]	144	[illegible]	652	[illegible]			13·44	[illegible]	12	4·80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21·36	[illegible]	118
	Singhbhum	[illegible]	[illegible]	[illegible]	8		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12		[illegible]	1·08	·48	2·76	[illegible]	[illegible]	[illegible]	[illegible]	290	15·84	15·12	124
	Manbhum	[illegible]	[illegible]	[illegible]	10	10	[illegible]	47	11	205	[illegible]	10	10	11·40	·72	·12	[illegible]	[illegible]	[illegible]	[illegible]	771	545	17·52	[illegible]	140
	TOTAL FOR THE PROVINCE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1·05	10	16·92	·72	12	[illegible]	23·04	30·12	25·08	65,042	58,852	24·54	21·12	113

MORTALITY ACCORDING TO—

10, 11 — Class.

Divisions.	Districts.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	.....	1,914	541	......	1	.....	21·24	24·60	.....	1·80
	Bankura	.	1,469	69	......	99	.	19·32	17·88	.....	14·04
	Birbhum	1	1,350	330	.....	28	249·96	26·16	24·24	.....	23·16
	Midnapore	2	4,831	354	......	275	32·40	25·92	25·80	.....	28·08
	Hughli	1	1,167	294	......	.....	41·28	26·10	27·12	....	.....
	Serampore	.....	622	156	.....	......	.....	25·44	21·48	.....	.....
	Total (Hughli, including Serampore)	1	1,789	450	......	......	18·24	25·92	28·56	.	.....
Presidency	Howrah	3	1,063	291	......	.....	17·52	25·44	26·40	....	......
	24-Pergunnahs	29	2,419	1,453	.....	.....	24·84	25·08	24·84	.....	.....
	Nuddea	17	1,389	1,954	....	......	31·68	22·80	25·44	.....	..
	Jessore	1	1,9[illegible]0	3,233	....	....	24·36	2[illegible]·88	3[illegible]·12	.....	.....
	Murshidabad	.....	1,328	1,288	......	....	......	25·08	26·16	...	......
	Khulna	.....	1,250	1,422	......	.....	.....	28·56	30·60	.....	
Rajshahye	Dinajpur	1	1,610	2,086	......	3	26·16	26·88	31·44	.....	25·08
	Rajshahye	.....	571	2,578	......	......	.....	23·64	29·40	....	..
	Rungpore	......	1,874	3,446	......	....	....	27·48	32·88	.....	.....
	Bogra	....	293	1,393	......	......	......	24·72	28·08	.....	..
	Pubna	......	722	2,051	......	......	.....	23·88	25·8[illegible]	..	
	Darjiling	...	285	14	10	1	...	26·88	29·40	6·38	18·72
	Jalpaiguri	....	850	617	......	27	.....	27·72	35·40	.....	71·76
Dacca	Dacca	23	1,830	2,634	......	......	31·42	25·56	25·20	....	.....
	Faridpore	2	1,264	1,793	.....	.....	8·64	23·88	21·96	...	..
	Backerganj	9	1,621	3,567	2	.....	29·14	31·08	36·60	4·92	..
	Mymensing	2	1,823	3,552	....	94	158·88	22·08	20·88	.	43·44
Chittagong	Chittagong	4	641	1,671	112	......	45·48	27·84	24·96	24·72	..
	Noakhali	......	525	1,841	......	......	......	29·76	36·24	......	...
	Tipperah	.....	1,211	2,749	.....	.....	......	25·20	32·64	.....	.....
Patna	Patna	......	2,126	259	......	.....	.....	16·44	14·64	.....	..
	Gya	1	3,020	399	.....	......	124·92	19·08	20·52	.....	.....
	Shahabad	......	3,300	216	......	......	.....	21·72	17·64	.....	......
	Mozufferpore	......	2,297	307	......	......	.....	12·12	11·64	....	....
	Durbhanga	.....	2,391	322	......	......	....	12·24	12·48	.....	..
	Sarun	......	2,470	311	.....	......	.....	14·04	13·80	....	..
	Chumparun	3	1,721	247	......	......	18·48	14·04	12·12	......	.
Bhagulpore	Monghyr	....	3,300	329	.....	6	......	22·32	21·00	......	9·96
	Bhagulpore	...	3,250	255	......	.....	.....	22·08	16·44	......	......
	Purneah	...	2,602	1,719	......	......	.....	28·92	26·52	......	.....
	Maldah	....	908	752	......	......	....	28·68	26·40	......	.
	Sonthal Pergunnahs	2	899	112	......	528	7·80	12·72	12·24	......	10·32
Orissa	Cuttack	2	3,272	64	......	......	10·20	22·44	16·08	....	
	Puri	......	1,983	23	......	......	....	27·12	19·68	.....	....
	Balasore	1	2,280	54	....	......	14·64	29·76	27·12	.....	....
Chota Nagpore	Hazaribagh	.....	1,968	225	......	111	.....	25·44	25·68	......	18·12
	Lohardugga	25	1,220	132	......	1,254	8·16	17·28	20·40	....	24·00
	Singhbhum	2	635	6	......	......	7·92	16·92	30·84	.....	...
	Manbhum	3	1,159	53	......	164	65·16	14·64	13·92	......	18·84
	TOTAL FOR THE PROVINCE...	134	76,643	47,462	124	2,531	15·72	21·36	26·64	19·60	18·12

12 — Age. Deaths.

Divisions.	Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	434	134	102	99	150	295	325	294	224	399
	Bankura	314	122	88	50	104	163	177	171	158	290
	Birbhum	451	147	66	58	69	189	182	192	126	209
	Midnapore	1,662	441	256	181	288	614	657	598	505	860
	Hughli	253	95	62	36	78	219	191	177	137	134
	Serampore	139	80	35	30	39	108	94	100	56	97
	Total (Hughli, including Serampore)	422	175	97	66	117	327	285	277	193	281
Presidency	Howrah	239	172	88	46	73	135	128	116	97	203
	24-Pergunnahs	579	395	233	138	239	546	497	388	310	570
	Nuddea	648	417	300	221	206	2[illegible]8	288	287	265	450
	Jessore	645	726	551	317	317	663	512	485	338	600
	Murshidabad	384	341	210	160	163	245	274	246	223	370
	Khulna	434	3[illegible]0	167	90	129	321	263	281	201	421
Rajshahye	Dinajpur	501	390	189	181	245	631	565	403	215	360
	Rajshahye	404	366	306	247	272	431	416	330	151	253
	Rungpore	805	592	334	256	273	741	790	627	365	557
	Bogra	378	151	111	67	74	253	167	140	123	190
	Pubna	278	354	303	233	229	338	270	212	141	320
	Darjiling	38	40	15	13	28	65	48	23	16	24
	Jalpaiguri	255	99	69	73	78	159	211	201	148	195
Dacca	Dacca	843	553	309	295	217	425	450	395	250	841
	Faridpore	472	378	232	144	181	354	327	264	225	489
	Backerganj	1,515	[illegible]	343	213	186	564	469	558	353	843
	Mymensing	735	538	[illegible]	239	352	687	686	524	417	93[illegible]
Chittagong	Chittagong	32[illegible]	292	125	81	113	252	271	254	241	47[illegible]
	Noakhali	611	379	136	68	8[illegible]	192	174	149	165	40[illegible]
	Tipperah	974	424	222	151	225	458	418	277	247	55[illegible]
Patna	Patna	531	2[illegible]6	89	61	58	185	176	25[illegible]	333	46[illegible]
	Gya	603	341	154	87	78	242	276	409	511	739
	Shahabad	629	2[illegible]3	154	9[illegible]	65	295	362	399	421	852
	Mozufferpore	240	24[illegible]	135	97	82	312	323	321	370	472
	Durbhanga	294	257	189	103	84	252	320	327	379	478
	Sarun	469	302	96	87	57	206	251	207	315	741
	Chumparun	255	231	96	61	57	173	232	244	250	376
Bhagulpore	Monghyr	985	468	151	95	72	23[illegible]	227	351	376	68[illegible]
	Bhagulpore	750	327	213	131	111	302	405	[illegible]92	[illegible]	471
	Purneah	412	537	243	237	230	535	637	571	440	421
	Maldah	188	255	167	105	79	185	188	175	111	209
	Sonthal Pergunnahs	255	185	101	84	96	157	139	128	188	208
Orissa	Cuttack	1,[illegible]	256	97	75	79	215	258	245	245	773
	Puri	679	164	69	36	48	118	118	109	224	353
	Balasore	687	248	104	50	102	205	204	204	180	351
Chota Nagpore	Hazaribagh	406	214	136	87	43	170	235	25[illegible]	306	441
	Lohardugga	398	246	125	130	94	240	353	274	274	497
	Singhbhum	77	61	54	21	26	55	60	92	84	113
	Manbhum	186	114	61	51	93	147	146	136	175	190
	TOTAL FOR THE PROVINCE...	22,819	13,678	7,712	5,363	5,945	13,656	13,789	12,738	14,294	20,[illegible]00

13 — Age. Ratio per 1,000 of population per annum.

Divisions.	Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	165·36	12·24	7·32	8·88	14·64	13·80	17·52	23·04	27·72	60·12
	Bankura	137·04	12·06	6·96	5·52	13·20	10·92	14·40	29·64	30·36	63·40
	Birbhum	[illegible]24·24	25·08	7·80	8·52	12·36	16·68	17·76	[illegible]6·64	26·04	54·24
	Midnapore	203·76	19·20	8·76	8·76	15·00	15·38	21·48	30·60	41·36	75·38
	Hughli	200·16	19·20	10·80	6·96	15·60	20·28	21·36	28·08	33·12	59·76
	Serampore	166·44	30·00	12·36	11·76	14·88	18·36	19·32	29·28	26·52	59·76
	Total (Hughli, including Serampore)	187·68	23·04	11·28	8·52	15·36	19·56	21·48	23·44	41·68	59·76
Presidency	Howrah	153·96	30·36	13·44	9·00	15·24	13·32	16·32	22·00	30·96	81·36
	24-Pergunnahs	143·88	22·80	11·52	9·48	18·96	18·00	20·88	24·96	34·20	60·24
	Nuddea	200·88	24·60	14·16	15·24	20·28	13·08	15·12	20·64	29·64	51·60
	Jessore	150·24	37·92	22·80	19·32	25·08	24·36	23·28	30·24	32·28	60·84
	Murshidabad	165·36	28·92	13·92	15·72	19·80	14·40	19·72	23·76	34·68	57·12
	Khulna	173·28	33·72	13·08	9·84	16·08	20·16	21·24	33·60	39·36	80·88
Rajshahye	Dinajpur	171·72	26·88	8·88	14·52	25·08	29·40	29·88	32·84	35·28	57·96
	Rajshahye	154·64	26·52	17·04	22·08	28·92	22·44	25·92	30·96	25·20	43·08
	Rungpore	186·96	24·04	12·60	14·04	21·12	24·84	29·52	35·16	35·28	58·20
	Bogra	295·30	18·72	10·92	11·04	14·88	22·56	18·96	34·80	41·44	61·56
	Pubna	92·16	25·92	20·64	22·20	29·04	19·92	17·88	20·88	23·16	44·04
	Darjiling	145·92	20·52	9·60	9·96	25·44	23·32	22·04	20·16	26·52	41·40
	Jalpaiguri	191·88	7·16	9·36	14·28	22·44	19·30	29·76	41·64	52·44	72·48
Dacca	Dacca	171·84	22·80	11·04	10·80	16·08	15·24	19·56	25·44	26·64	75·12
	Faridpore	139·68	21·12	11·64	9·84	18·00	15·00	17·52	20·28	27·84	61·08
	Backerganj	388·92	31·56	15·36	13·08	13·56	19·68	21·72	27·08	40·44	100·92
	Mymensing	115·44	15·72	8·76	9·36	16·92	16·20	19·80	23·76	32·04	65·40
Chittagong	Chittagong	117·24	23·76	7·92	7·08	14·04	15·00	23·52	31·32	42·96	92·64
	Noakhali	314·88	40·56	12·36	9·12	14·28	17·64	19·80	25·56	42·72	114·24
	Tipperah	328·68	24·24	11·16	11·04	21·12	21·96	24·84	24·96	32·84	88·56
Patna	Patna	153·84	14·40	4·56	4·32	6·12	7·56	8·16	14·76	31·90	43·08
	Gya	169·08	14·64	5·52	4·92	6·72	8·16	10·44	21·72	42·84	69·12
	Shahabad	165·12	12·36	6·72	5·04	6·12	10·80	14·52	24·24	42·12	80·52
	Mozufferpore	64·80	8·88	4·08	4·44	5·88	9·00	10·08	14·16	26·52	36·72
	Durbhanga	70·08	10·68	5·52	4·80	5·64	6·96	9·48	14·16	26·64	40·68
	Sarun	105·24	12·96	3·36	4·32	4·56	6·84	8·52	13·32	26·04	64·68
	Chumparun	59·12	13·56	4·69	4·08	5·88	7·08	10·20	15·60	29·52	47·16
Bhagulpore	Monghyr	320·52	22·20	6·00	5·28	6·36	8·76	9·16	20·64	37·08	72·12
	Bhagulpore	244·20	17·04	8·16	7·44	9·36	12·84	15·96	24·00	37·92	59·04
	Purneah	130·80	30·12	10·20	14·58	20·04	22·80	20·16	36·36	52·56	54·24
	Maldah	113·88	36·60	18·36	17·64	15·84	18·96	21·84	31·32	35·16	53·08
	Sonthal Pergunnahs	99·12	9·72	4·20	5·40	10·08	8·16	7·92	11·76	23·88	32·04
Orissa	Cuttack	330·72	13·44	4·20	4·68	6·84	8·88	12·84	18·36	33·60	83·32
	Puri	535·80	17·28	6·48	4·80	8·52	8·88	13·92	24·12	45·48	85·68
	Balasore	401·28	25·92	8·76	5·76	16·68	15·00	18·48	26·40	39·24	85·08
Chota Nagpore	Hazaribagh	140·28	16·20	7·44	8·88	6·72	11·64	17·76	32·64	68·36	121·68
	Lohardugga	112·08	12·36	5·52	8·52	9·72	10·80	18·84	24·84	43·20	93·68
	Singhbhum	105·72	11·76	8·64	4·80	8·16	8·76	11·16	28·20	44·76	69·48
	Manbhum	77·88	9·72	5·28	5·64	12·24	10·44	11·88	18·72	37·08	43·68
	TOTAL FOR THE PROVINCE...	176·28	20·04	9·24	9·24	14·16	14·76	17·28	23·88	34·68	64·44

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 20th May 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

THE birth and death returns from the principal Municipalities in Bengal afford the following results for the week ending 4th May 1889 :—

1. Births were registered at the rate of 18·2 per 1,000 of population and deaths at 20·1 per 1,000, as opposed to 20· and 24·6 per 1,000, respectively, during the preceding week ending 27th April, showing a considerable falling off in the registration of both the events.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.	Ratio per mille.	*Deaths.*	Ratio per mille.
Darjiling	78·2	Rampore Beauleah	49·9
Rampore Beauleah	47·3	Serampore	45·1
Naraingunj	41·4	Purneah	41·6
Bali	31·6	Gya	36·2
Durbhanga	29·9	Puri	35·7
Monghyr	29·8		

3. The subjoined table indicates that, as compared with the result of the preceding week, there was a considerable reduction in the death-rates from cholera and the maladies classed under the head of "Other causes," but only fractional diminution in the case of the other diseases, the mortality from injury remaining the same as in the previous week :—

	Ratio per mille during the weeks ending— 4th May 1889.	27th April 1889.
Cholera	3·1	4·4
Small-pox	·6	·7
Fever	8·0	8·5
Bowel-complaints	2·2	2·5
Injury	·5	·5
Other causes	5·7	8·0

4. Of the diseases above specified, cholera and "other causes" proved conspicuously fatal in the following Municipalities, and fever only in the Rampore Beauleah town, where the death-rate from this cause stood at 23·6 per 1,000 of population :—

Cholera.	Ratio per mille.	*Other causes.*	Ratio per mille.
Purneah	27·7	Serampore	21·6
Rampore Beauleah	18·4	Puri	21·0
Comillah	18·4	Bhagulpore	13·6
Serampore	7·8		
Gya	6·8		
Howrah	4·6		
Durbhanga	3·1		
Patna	2 6		

5. With regard to mortality referable to *Sex*, *Class* and *Age*, the rates of deaths stood as follows :—

According to Sex.	Ratio per mille.	*According to Class.*	Ratio per mille.	*According to Age.*	Ratio per mille.
Males	20·2	Christians	46 0	Under 1 year ...	168·9
Females	20·0	Hindus	21·0	1 and under 5 years ...	26 7
Ratio of male deaths to every 100 female deaths	109	Mahomedans ...	16·9	5 " 10 " ...	11·7
		Buddhists	51·4	10 " 15 " ...	8·6
				15 " 20 " ...	14 7
				20 " 30 " ...	10·3
				30 " 40 " ...	15·6
				40 " 50 " ...	15·6
				50 " 60 " ...	14·6
				60 years and upwards ...	50·2

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 20th May 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 4th May 1889.

1	2	3			4			5			6	7							8							9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS. Number of—			BIRTHS. Ratio per 1,000 of Population per Annum.			BIRTHS. Ratio of male births to every 100 female births.	MORTALITY ACCORDING TO— Disease. Deaths from—							MORTALITY ACCORDING TO— Disease. Ratio per 1,000 of Population per Annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	MORTALITY ACCORDING TO— Sex. Deaths.		Sex. Ratio per 1,000 of Population per Annum.		Ratio of male deaths to every 100 female deaths.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan	Burdwan	18,063	16,417	34,080	10	5	15	15·3	7·6	22·9	200	...	...	5	...	...	4	9	...	...	7·6	...	...	6·1	13·7	47·3	5	4	14·4	13·0	125
Midnapore... ...	Midnapore	16,927	16,633	33,560	5	1	6	7·7	1·5	9·3	500	...	...	4	2	2	5	13	...	...	6·2	3·1	3·1	7·7	20·1	23·2	8	5	24·6	15·6	160
Hughli	Hughli and Chinsurah ...	19,179	19,539	38,718	8	7	15	10·7	9·4	20·1	114	3	1	5	2	...	4	15	4·0	1·3	6·7	2·7	...	5·4	20·1	13·1	6	9	16·3	24·0	66
Serampore ...	Serampore	13,559	12,937	26,496	3	3	6	5·9	5·9	11·8	100	4	...	3	5	...	11	23	7·8	...	5·9	9·8	...	21·6	45·1	35·3	13	10	49·9	40·2	130
	Utterpara	3,046	2,464	5,510	..	1	1	...	9·4	9·4	No male birth.	...	...	2	...	...	...	2	..	...	18·9	...	...	...	18·9	28·3	2	...	34·1	...	No female death.
Howrah	Howrah	53,153	37,660	90,813	17	13	30	9·7	7·4	17·2	130	8	1	4	3	...	8	24	4·6	·5	2·3	1·7	...	4·6	13·7	16·6	16	8	15·7	11·0	200
	Bali	7,836	6,979	14,815	4	5	9	14·0	17·5	31·6	80	...	1	4	...	...	...	5	..	3·5	14·0	...	...	...	17·5	14·0	4	1	26·5	7·5	400
Nuddea	Kishnaghur	13,263	14,214	27,477	5	5	10	9·4	9·4	18·9	100	...	...	3	...	...	2	5	...	...	5·6	...	...	3·8	9·4	3·8	3	2	11·3	7·3	150
	Ranaghat	4,028	4,655	8,683	...	1	1	...	6·0	6·0	No male birth.	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6·0	18·0	...	1	...	11·2	No male death.
	Santipore	13,708	15,979	29,687	...	...	...	...	...	...	......	...	...	2	...	...	1	3	...	...	3·5	...	...	1·8	5·3	10·5	3	...	11·4	...	No female death.
Jessore	Jessore	4,830	3,665	8,495	3	1	4	18·4	6·1	24·5	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	49·0	...	...	...	...	......
Rajshahye	Rampore Beauleah ...	10,766	9,025	19,791	8	10	18	21·0	26·3	47·3	80	7	...	9	1	...	2	19	18·4	...	23·6	2·6	...	5·3	49·9	57·8	8	11	38·6	63·4	72
Darjiling	Darjiling*	5,029	2,947	7,976	8	4	12	52·1	26·1	78·2	200	...	..	2	...	...	2	4	...	...	13·0	...	...	13·0	26·1	19·6	3	1	31·0	17·6	300
Dacca	Dacca	42,782	37,379	80,161	8	6	14	5·2	3·9	9·1	133	5	...	3	3	1	3	13	1·9	..	1·9	1·9	·6	1·9	8·4	31·8	7	6	8·5	8·3	116
	Narainganj	7,605	4,956	12,561	4	6	10	16·6	24·8	41·4	66	2	...	2	.	...	2	6	8·3	...	8·3	...	...	8·3	24·8	24·8	3	3	20·5	31·5	100
Chittagong ...	Chittagong	13,340	8,790	22,130	2	3	5	4·7	7·0	11·7	66	1	...	5	2	...	...	8	2·3	...	11·7	4·7	...	...	18·8	25·8	7	1	27·3	5·9	700
Tipperah	Comillah	8,153	5,353	13,506	3	1	4	11·6	3·8	15·4	300	4	...	1	...	...	2	7	15·4	...	3·8	...	...	7·7	26·9	42·4	5	2	31·9	19·4	250
Patna	Patna City	78,762	81,475	160,237	19	11	30	6·2	3·5	9·7	172	8	5	10	12	3	15	53	2·6	1·6	3·2	3·9	1·0	4·9	17·2	16·4	20	33	13·2	21·1	60
Gya	Gya	38,290	37,831	76,121	6	9	15	4·1	6·1	10·2	66	10	...	29	4	...	10	53	6·8	...	19·8	2·7	...	6·8	36·2	38·3	23	30	31·2	41·2	76
Shahabad	Arrah	20,960	22,505	43,465	7	4	11	8·4	4·8	13·2	175	...	..	9	...	...	2	11	...	...	10·8	...	...	2·4	13·2	13·2	4	7	9·9	16·2	57
Mozufferpore ..	Mozufferpore	23,084	19,658	42,742	10	13	23	12·2	15·8	28·0	76	...	...	8	3	4	3	18	.	...	9·7	3·6	4·9	3·6	21·9	14·6	8	10	18·0	26·5	80
Durbhanga... ..	Durbhanga	33,774	32,322	66,096	24	14	38	18·9	11·0	29·9	171	4	.	20	2	...	8	34	3·1	...	15·7	1·6	...	6·3	26·7	33·0	20	14	30·8	22·5	142
Sarun	Chupra	26,044	27,205	53,249	11	15	26	10·7	14·6	25·4	73	...	2	8	1	1	5	17	...	1·9	7·8	1·0	1·0	4·9	16·6	22·5	9	8	18·0	15·3	112
Bhagulpore... ...	Bhagulpore	29,640	27,813	57,453	17	13	30	15·4	11·8	27·2	130	...	...	9	...	...	15	24	...	...	8·1	...	...	13·6	21·7	23·1	15	9	26·3	16·8	166
Monghyr	Monghyr	28,154	29,366	57,520	18	15	33	16·3	13·5	29·8	120	1	..	11	3	...	3	18	·9	...	9·9	2·7	...	2·7	16·3	31·6	9	9	16·6	15·9	10
Purneah	Purneah	8,463	6,553	15,016	2	...	2	6·9	...	6·9	No female birth.	8	...	4	...	...	...	12	27·7	...	13·9	...	...	...	41·6	58·9	4	8	24·6	63·5	50
Puri	Puri	13,247	11,537	24,784	4	2	6	8·4	4·2	12·6	200	2	2	1	2	...	10	17	4·2	4·2	2·1	4·3	...	21·0	35·7	37·8	11	6	43·2	27·0	183
	Total ...	555,685	515,457	1,071,142	206	168	374	10·0	8·2	18·2	123	65	12	164	45	11	117	414	3·1	·5	8·0	2·2	·5	5·7	20·1	24·6	216	198	20·2	20·0	109

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO—

Class (13: Deaths among—; 14: Ratio per 1,000 of population per annum)

Districts.	Names of Municipalities.	13. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	14. Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	4	5	...	...	...	8·8	25·3	.	...
Midnapore	Midnapore	...	12	1	...	...	...	24 1	7·2	...	.
Hughli	Hughli and Chinsurah ...	...	6	9	...		...	9·9	68·6	...	..
Serampore	Serampore	4	18	1	...	..	652·0	37·1	53·4	...	...
	Utterpara	...	2	...	...	. .	...	19·5	...	.	.
Howrah	Howrah	1	20	3	..	...	27·5	15·3	7·6	..	...
	Bali	..	5	...	.	...	...	19 4		.	...
Nuddea ...	Kishnaghur	...	5	...	...	...	...	14·0	...	...	..
	Ranaghat	...	1	...	...	...	..	7·1	...	...	.
	Santipore	...	1	2	...	...	..	2·5	11·6	...	...
Jessore	Jessore	...	...	...	...	...	...	...	...	...	...
Rajshahye	Rampore Beauleah	...	9	10	...	...	...	47 2	53·0	...	...
Darjiling	Darjiling	...	4	..	..	.	...	45·3	...	...	..
Dacca	Dacca	..	11	2	...	...	..	14 2	2·6	..	...
	Naraingunj	.	3	3	..	...	..	24·7	25·3	..	..
Chittagong	Chittagong	1	1	4	2	...	65·3	9·0	13·6	433·3	...
Tipperah	Comillah	..	1	6	...	...	...	8·7	42·2	...	...
Patna	Patna City	1	43	9	...	...	146·5	18·8	11 4	...	...
Gya	Gya	..	47	6	...	...	..	40·7	19 4		..
Shahabad	Arrah	...	8	3	...	...	..	13 4	12·6	...	...
Mozufferpore	Mozufferpore	...	12	6	...	...	...	20 8	25·0	...	..
Durbhunga	Durbhunga	...	25	9	...	...	...	26·[illegible]	26 6	. .	...
Sarun	Chupra	...	13	4	...	..	..	16 4	17·3	...	...
Bhagulpore	Bhagulpore	...	19	5	...	...	...	24·8	16·1	...	...
Monghyr	Monghyr	...	12	6	...	...	..	14·0	24 8	..	...
Purneah ..	Purneah	.	10	2	...	...	...	56 7	18 4	...	
Puri	Puri	..	17	..	...	...	...	36·0		.	
	Total ...	7	309	86	2		46 0	21 0	16 9	51 4	

Age (15: Deaths)

Districts.	Names of Municipalities.	15. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	1	...	1	...	1	1	1	4	...	...
Midnapore	Midnapore	2	2	...	...	3	...	2	1	1	2
Hughli	Hughli and Chinsurah	6	4	1	...	...	1	...	1	...	2
Serampore	Serampore	6	2	1	1	2	1	3	4	...	3
	Utterpara	1	..	...	...	...	..	...	...	..	1
Howrah	Howrah	5	2	1	...	...	5	7	1	1	2
	Bali	1		...	...	1	1	..	1	1	...
Nuddea	Kishnaghur	1	...	2	...	...	...	1	1	...	..
	Ranaghat	...		...	...	...	...	...		..	1
	Santipore	...	.	1	...	..	.	1		...	1
Jessore	Jessore	...	...	...	...	...	.	..	.	..	...
Rajshahye	Rampore Beauleah	1	..	2	2	...	4	2	6	...	2
Darjiling	Darjiling	2	1	...	...	...	1	...	...	...	...
Dacca	Dacca	3	3	..	...	.	...	2	...	2	3
	Naraingunj	1	2	1	...	...	...	2	.	...	...
Chittagong	Chittagong	...	2	...	...	1	2	2	1	..	...
Tipperah	Comillah	1	...	...	1	...	2	2	..	...	1
Patna	Patna City	10	10	4	6	2	3	5	2	4	7
Gya	Gya	8	3	2	4	4	3	6	6	5	12
Shahabad	Arrah	3	2		...	..	1	..	1	1	3
Mozufferpore	Mozufferpore	6	1	2	...	1	1	...	3	...	4
Durbhunga	Durbhunga	6	7	2	1	1	6	5	1	1	4
Sarun	Chupra	4	2	...	...	3	1	2	1	..	4
Bhagulpore	Bhagulpore	8	2	2	.	...	3	2	2	2	3
Monghyr	Monghyr	4	3		...	1		4	1	1	4
Purneah	Purneah	...		2	1	2	4	1		...	2
Puri	Puri	3	...	1		1	2	3	1	3	3
	Total	83	48	25	16	23	42	53	38	22	64

Age (16: Ratio per 1,000 of population per annum)

Districts.	Names of Municipalities.	16. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	78·8	......	22·3	......	16·6	6·6	7·5	47·1	......	......
Midnapore	Midnapore	140·0	44·2	......	......	49·4	......	18 8	14·0	25·2	56·8
Hughli	Hughli and Chinsurah	330·9	78·0	14·9	......	......	6·8	......	10·1	......	41·5
Serampore	Serampore	439·4	57·6	20·7	23·4	47·6	9·7	31·4	61·6	......	112·1
	Utterpara	323·0	......	......	......	......	......	......	......	......	200·0
Howrah	Howrah	126·0	18·8	8 3	......	......	11·5	18·9	4·4	9·5	27·7
	Bali	143·6	......	......	......	39·0	15·5	......	26·9	49·6	......
Nuddea	Kishnaghur	104·8	......	30·3	......	......	......	12·1	15·9	......	......
	Ranaghat	......	......	......	......	......	......	......	......	......	91·4
	Santipore	......	......	13·8	......	......	......	12·0	......	......	26·5
Jessore	Jessore	......	......	......	......	......	......	......	......	......	......
Rajshahye	Rampore Beauleah	128·1	......	50·0	57 7	......	50·0	28·9	127·2	......	108·0
Darjiling	Darjiling	859·5	80·9	......	......	......	26·0	......	......	......	......
Dacca	Dacca	83·2	21 2	......	......	......	......	8·9	......	22·0	28·9
	Naraingunj	186·4	91·2	39·4	......	......	......	48·6	......	......	......
Chittagong	Chittagong	......	52·9	...	......	21·5	22·5	31·2	23·0	......	......
Tipperah	Comillah	175·1	......	...	35·6	......	37·7	53 2	......	......	76·7
Patna	Patna City	120·6	35·6	12·4	21·7	9·3	5·4	11·2	5·5	14 7	26·4
Gya	Gya	232·4	24·5	14·9	30·9	39·7	16·6	24·5	31·9	39·6	121·2
Shahabad	Arrah	121·1	23·5	......	......	......	6·6	......	11·1	16·8	54·1
Mozufferpore	Mozufferpore	326·7	13·9	23·1	......	17·2	6·1	......	31·2	......	85·5
Durbhunga	Durbhunga	200·4	47·8	13·3	9·4	12 9	23·4	23·3	7·0	11·9	65·1
Sarun	Chupra	144·0	19·6	......	......	43 7	5·5	12·9	8·3	......	59·8
Bhagulpore	Bhagulpore	348·4	19·2	17·7	......	......	14 3	11·2	16·2	21·4	43 3
Monghyr	Monghyr	140·1	25 1	......	...	13·8	......	23 3	8·2	13·1	58·0
Purneah	Purneah	. .	......	65 8	43 5	104·6	63 3	18 2	......	...	123·9
Puri	Puri	514·9		23·2	...	28·0	19 7	38 5	15 6	69·9	86·4
	Total	168 9	26·7	11 7	8 6	14 7	10·3	15 6	15 6	14 6	50·2

Office of Sanitary Commissioner for Bengal,

The 2[illegible]th May 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 18th May 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 18th May 1889.			Week ending Saturday, the 19th May 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	247	74,795	1,161	381	98,125	1,586
Jute	14	7,950	105	17	10,800	176
Firewood	33	14,725	222	156	1,23,545	1,512
Other articles	682	2,24,610	2,991	710	1,72,470	2,498
Total ...	976	3,22,080	4,479	1,264	4,04,940	5,772

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 11th May 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*300,650	*2,84,701 0 0	30,69,699 10	7,23,091 5 0	19,101 3 0	10,26,893 8 0	64,776½	112,545	177,321½
Or per mile of railway . ..	..	188 1 9	. . .	477 12 2	12 9 11	678 7 10	......	...	.
For previous 18 weeks of half-year	4,780,528	54,52,039 1 0	4,98,40,495 10	1,10,79,487 5 4	2,88,647 6 8	1,68,20,173 13 0	1,181,123¼	1,739,325¼	2,920,448½
Total for 19 weeks ..	5,081,178	57,36,740 1 0	5,29,10,194 20	1,18,02,578 10 4	3,07,748 9 8	1,78,47,067 5 0	1,245,899¾	1,851,870¼	3,097,770
Comparison.									
Total for corresponding week of previous year	297,825	2,57,200 4 3	29,56,019 20	6,95,562 5 11	17,883 12 2	9,70,736 6 4	64,014	*109,721	173,735
Per mile of railway corresponding week of previous year ...	......	169 15 6	......	459 7 11	11 13 1	641 4 6	.... .	......	... ..
Total to corresponding date of previous year	5,138,556½	58,30,029 6 9	5,42,04,570 0	1,26,71,544 2 6	4,15,082 6 7	1,89,18,155 15 10	1,255,999	2,014,713	3,270,712

* The increase in coaching traffic is principally due to the running of a troop extra train from Howrah to N.-W. Railway and in some measure to increased traffic on account of Balloon ascent at Jamalpur.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,513¾	9,70,736	641	1,513¾	10,26,894	678	1,513¾	59,44,499	655	1,513¾	57,27,847	631	... .	2,16,652

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 11th May 1889, on 57⅛ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,733	6,556 13 0	43,934 30	2,835 15 0	63 8 0	9,456 4 0	1,549	659	2,508
Or per mile of railway	240	114 10 1	768 10	49 9 3	1 1 9	165 5 1	..	..... .	......
For previous 18 weeks of half-year	260,262	1,42,555 2 9	7,19,436 30	43,718 11 0	942 5 10	1,87,216 3 7	33,073¾	10,910	44,983¾
Total for 19 weeks ...	273,995	1,49,111 15 9	7,63,371 20	46,554 10 0	1,005 13 10	1,96,672 7 7	35,522¼	11,869	47,391¼
Comparison.									
Total for corresponding week of previous year	13,556	5,696 3 2	42,954 20	2,793 15 0	23 9 3	8,513 11 5	1,616	778	2,394
Per mile of railway corresponding week of previous year ..	237	99 9 4	751 0	48 13 7	0 6 7	148 13 6	... .	.	......
Total to corresponding date of previous year	280,101½	1,45,873 6 2	7,69,729 10	52,038 0 0	813 3 6	1,98,724 9 8	33,628	13,009	46,637

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅛	8,514	149	57⅛	9,456	165	57⅛	59,689	174	57⅛	59,986	175	297	...

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 11th May 1889, on 12 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,838	505 13 0	20,643 30	634 6 0	7 11 0	1,147 14 0	326½	167	493½
Or per mile of railway .		42 2 5	......	52 13 10	0 10 8	95 10 6	...	......	......
For previous 18 weeks of half-year	51,085	8,660 3 9	3,25,835 30	7,543 7 0	173 1 8	16,376 12 5	6,226½	2,515½	8,742
Total for 19 weeks .	53,923	9,166 0 9	3,46,479 20	8,177 13 0	180 12 8	17,524 10 5	6,553½	2,682½	9,235½
Comparison.									
Total for corresponding week of previous year	3,931	670 7 1	25,017 0	922 0 0	8 1 0	1,600 8 1	181	312	493
Per mile of railway corresponding week of previous year	.....	55 13 11	... .	76 13 4	0 10 9	133 6 0	......	......	......
Total to corresponding date of previous year . . .	59,078	10,119 0 6	4,24,274 30	10,180 8 0	197 2 0	20,496 10 6	5,921	3,446	9,367

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,601	133	12	1,148	96	12	8,023	111	12	6,034	84	......	1,989

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 11th May 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	21,101	5,364 3 0	11,896 0	403 1 0	8 2 0	5,775 6 0	916	52	968
Or per mile of railway .		241 1 5	.....	18 1 10	0 5 10	259 9 1	......	......	......
For previous 18 weeks of half-year .. .	417,162	1,09,669 15 0	1,74,040 20	6,303 15 0	109 15 10	1,16,083 13 10	16,603	1,116	17,719
Total for 19 weeks .	438,263	1,15,034 2 0	1,85,936 20	6,707 0 0	118 1 10	1,21,859 3 10	17,519	1,168	18,687
Comparison									
Total for corresponding week of previous year . .	22,094	5,562 2 8	6,515 30	272 1 0	6 14 6	5,841 2 2	911	57	968
Per mile of railway corresponding week of previous year	......	249 15 9	......	12 3 8	0 4 11	262 8 4	......	......	......
Total to corresponding date of previous year	435,474½	1,15,012 3 7	1,57,639 30	5,816 12 0	146 15 0	1,20,975 14 7	17,377	1,455	18,832

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,841	263	22½	5,775	260	22½	45,122	338	22½	40,567	304	......	4,555

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 4th May 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	173,050	65,480 0 0	5,09,500 0	78,640 0 0	13,680 0 0	1,57,800 0 0	21,269	22,065	43 334
Or per mile of railway .	257	97 0 0	757 0	117 0 0	†4 0 0	218 0 0	.....	... ..	... .
For previous 17 weeks of half-year	a2,501,954	13,03,462 0 0	a80,23,706 0	14,35,542 0 0	2,95,872 0 0	*30,34,876 0 0	363,186	411,153	774,339
Total for 18 weeks	2,675,004	13,68,942 0 0	91,33,206 0	15,14,182 0 0	3,09,552 0 0	31,92,676 0 0	384,455	433,218	817,673
COMPARISON.									
Total for corresponding week of previous year ..	176,264	62,911 0 0	4,12,103 0	64,280 0 0	11,865 0 0	1,39,056 0 0	21,368	22,020	43,388
Per mile of railway corresponding period of previous year	262	93 0 0	612 0	96 0 0	†2 0 0	191 0 0	.. ..	... ..	... ..
Total to corresponding date of previous year	2,560,955	13,13,510 0 0	98,81,080 0	13,79,497 0 0	2,81,924 0 0	29,74,931 0 0	395,146	437,777	832,923

* Audited up to week ending 30th March 1889.
† Excluding steamer earnings.
a Audited up to 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,39,056	207	673	1,57,800	234	673	6,88,109	204	673	7,86,810	234	98,701	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	35,150	10,240 0 0	59,050 0	3,960 0 0	70 0 0	14,270 0 0	3,597	2,075	5,672
Or per mile of railway	281	82 0 0	472 0	32 0 0	...	114 0 0	......	.....	.....
For previous 17 weeks of half-year	†477,746	1,71,356 0 0	†9,50,821 0	54,113 0 0	4,523 0 0	*2,29,992 0 0	60,209	33,700	93,909
Total for 18 weeks ...	512,896	1,81,596 0 0	10,09,871 0	58,073 0 0	4,593 0 0	2,44,262 0 0	63,806	35,775	99,581
COMPARISON.									
Total for corresponding week of previous year	34,638	8,920 0 0	43,930 0	3,191 0 0	80 0 0	12,191 0 0	3,319	2,003	5,322
Per mile of railway corresponding period of previous year .	277	71 0 0	351 0	25 0 0	1 0 0	97 0 0	......	......	.....
Total to corresponding date of previous year	479,226	1,60,383 0 0	9,29,350 0	58,387 0 0	3,943 0 0	2,22,713 0 0	60,485	35,818	96,303

* Audited up to week ending 30th March 1889.
† Ditto ditto 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,191	97	125	14,270	114	125	55,967	90	125	66,506	106	10,539	

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th May 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,900	4,050 0 0	14,720 0	760 0 0	210 0 0	5,020 0 0	2,502	602	3,104
Or per mile of railway	150	47 0 0	171 0	9 0 0	2 0 0	58 0 0	... ..	... ..	
For previous 17 weeks of half-year ...	†260,450	82,318 0 0	†2,02,690 0	16,932 0 0	2,943 0 0	*1,02,193 0 0	40,852	11,062	51,914
Total for 18 weeks	273,350	86,368 0 0	2,17,410 0	17,692 0 0	3,153 0 0	1,07,213 0 0	43,354	11,664	55,018
Comparison									
Total for corresponding week of previous year	14,093	3,809 0 0	15,987 0	879 0 0	327 0 0	5,015 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year	164	44 0 0	186 0	10 0 0	4 0 0	58 0 0	.. ..	.....	
Total to corresponding date of previous year	255,740	77,778 0 0	2,27,497 0	15,799 0 0	3,386 0 0	96,963 0 0	44,815	11,097	55,912

* Audited up to week ending 30th March 1889.
† Ditto ditto 2nd ditto.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,015	58	86	5,020	58	86	25,303		86	25,878	60	575	

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 4th May 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,510	880 0 0	42,240 0	2,920 0 0	30 0 0	3,830 0 0	532	532	1,064
Or per mile of railway	66	23 0 0	1,112 0	77 0 0	1 0 0	101 0 0		.. .	
For previous 17 weeks of half-year	†51,682	18,780 0 0	†4,18,416 0	30,195 0 0	3,192 0 0	*52,167 0 0	8,916	8,910	17,832
Total for 18 weeks	54,192	19,660 0 0	4,60,656 0	33,115 0 0	3,222 0 0	55,997 0 0	9,448	9,418	18,896
Comparison.									
Total for corresponding week of previous year	3,231	1,030 0 0	31,650 0	2,076 0 0	59 0 0	3,174 0 0	546	546	1,092
Per mile of railway corresponding period of previous year	83	27 0 0	812 0	53 0 0	1 0 0	81 0 0	......	..	. ..
Total to corresponding date of previous year	55,968	19,120 0 0	4,97,096 0	36,373 0 0	854 0 0	56,347 0 0	9,828	9,828	19,656

* Audited up to week ending 30th March 1889.
† Ditto ditto 2nd ditto.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 5th May 1888.			Receipts for week ending 4th May 1889.			Total receipts from 1st April 1888 to 5th May 1888.			Total receipts from 1st April 1889 to 4th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
38	3,174	81	38	3,830	101	38	16,000	82	38	15,827	83	.....	173

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 11th May 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,001	1,077 0 0	4,487 0	440 0 0	19 0 0	1,536 0 0	509	254	763
Or per mile of railway ...	110	39 0 0	165 0	16 0 0	1 0 0	56 0 0	......	......	......
For previous 17 weeks of half-year	59,920	22,254 0 0	2,01,300 0	12,187 0 0	1,066 0 0	35,507 0 0	9,017	8,011	17,028
Total for 18 weeks ...	62,921	23,331 0 0	2,05,787 0	12,627 0 0	1,085 0 0	37,043 0 0	9,526	8,265	17,791
Comparison.									
Total for corresponding week of previous year	3,336	1,202 0 0	10,100 0	527 0 0	16 0 0	1,745 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	122	44 0 0	371 0	19 0 0	1 0 0	64 0 0	......	......	......
Total to corresponding date of previous year	62,361	22,936 0 0	2,98,198 0	16,674 0 0	392 0 0	40,002 0 0	9,671	8,518	18,189

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs	Rs.
27¼	1,745	64	27¼	1,536	56	27¼	10,975	67	27¼	9,043	55	..	1,932

TIRHOOT STATE RAILWAY

Approximate Return of Traffic for the week ending 11th May 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs A. P.	Rs. A. P			
Total traffic for the week on 273 miles open	44,104	14,736 0 0	2,88,455 0	19,871 0 0	4,203 0 0	38,000 0 0	5,314	5,794	11,108
Or per mile of railway ...	162	54 0 0	873 0	73 0 0	2 0 0	129 0 0*	...		..
For previous 17 weeks of half-year	767,415	2,89,766 0 0	25,88,647 0	2,42,147 0 0	58,023 0 0	5,89,936 0 0	96,074	98,352	194,426
Total for 18 weeks ...	811,519	3,04,502 0 0	28,27,102 0	2,62,018 0 0	62,316 0 0	6,28,836 0 0	101,388	104,146	205, 34
Comparison.									
Total for corresponding week of previous year on 259 miles open	47,912	18,005 0 0	2,11,333 0	22,156 0 0	3,335 0 0	43 496 0 0	5,973	6,8 3	12,826
Per mile of railway corresponding week of previous year ...	185	69 0 0	816 0	86 0 0	1 0 0	156 0 0*			..
Total to corresponding date of previous year	830,489	3,24,679 0 0	37,00,457 0	4,09,003 0 0	64,384 0 0	7,97,956 0 0	118,262	118,602	266,864

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	43,496	168	273	38,900	143	259	2,40,175	155	273	2,22,504	136	....	17,671

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 4th May 1889	10,614
Corresponding week last year	10,476
Increase	138
Receipts from 1st January to 4th May 1889	1,54,733
From 1st January to 5th May 1888	1,64,501
Decrease	9,768
	Miles.
Miles open week ending 4th May 1889	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 4th May 1889	208 1 11
Corresponding week last year	205 6 9
Increase	2 11 2

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 22nd May 1889.

REGISTERED No. 29.

No. 22 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MAY 29, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

RESOLUTION ON THE ANNUAL REPORT ON THE WORKING OF THE EDEN SANITARIUM FOR THE YEAR 1888.

MEDICAL.

Darjeeling, the 25th May 1889.

READ—

The Report on the working of the Eden Sanitarium for the year 1888.

Read also—

Report for the year 1887, and the Resolution recorded upon it.

The following statement, which testifies to the growing popularity of the institution, shows the number of patients, with their relatives and attendants, excluding infants in arms, admitted into the Sanitarium during the past five years:—

	1884.	1885.	1886.	1887.	1888.
Patients	153	192	273	344	336
Relatives and attendants	73	68	120	84	107
Total ...	226	260	393	428	443

Of the 443 persons admitted, 48 were admitted in the 1st class, 281 in the 2nd class, and 114 in the 3rd class. Several applications had to be refused owing to want of accommodation.

The daily average number of patients during the year was 39·17 for the nine months the institution was open, against 35·67 in the previous year, while the average stay of each patient was 24·37 days as compared with 22·60 in 1887. Most of the patients admitted were suffering from fever, although there were also many cases of dysentery, rheumatism, tubercular diseases of the lungs, diarrhœa, and affections of the skin. Four deaths occurred during the year.

The receipts from paying patients amounted to Rs. 33,579-2, against Rs. 29,454 in 1887. The total receipts, including balance of the previous year, were Rs. 36,996-0-11, and the expenditure was Rs. 35,778-3-9. The expenditure under the head of European medicines was more than double of what it was in 1887, owing to the fact that two years' supplies were obtained from Europe. The expenditure under the head of Diet, excluding the amount paid on account of 1887, was Rs. 13,759-5-6, against Rs. 12,752-5 in 1887, thus showing an increase of Rs. 1,007, due mainly to the increase in the number of patients.

During the year the Committee paid Rs. 4,801-8-6 of debt, and at the end of the year nothing was owed, except Rs. 800 due to the Superintendent.

The building is in fairly good order, but a dead-house is said to be urgently required, and the Lieutenant-Governor hopes this want will soon be supplied.

The Resident Medical Officer and the nursing staff rendered valuable services to the institution. As the Steward did not give satisfaction his services were dispensed with at the close of the season. The thanks of the Lieutenant-Governor are due to the Committee and the Superintendent for the interest they have taken in the welfare of the Sanitarium.

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secretary to the Govt. of Bengal.

REPORT ON THE STATE OF THE SALT MARKET FOR THE FOURTH QUARTER OF 1888-89.

No. 378B., dated Calcutta, the 14th May 1889.

From—K. G. GUPTA, ESQ., Offg. Secy. to the Board of Revenue, L.P.,

To—The Secretary to the Government of Bengal, Financial Department.

SALT. — J. BEAMES, ESQ.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the fourth quarter of 1888-89, comprising the months of January, February and March 1889.

2. The quantity of salt of every description cleared during the quarter under report amounted to 21,53,700 maunds 31 seers 13 chittacks, against 24,20,274 maunds 38 seers 9 chittacks in the previous quarter, and 22,01,094 maunds 7 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 51,04,008-12, against Rs. 56,74,386 in the previous quarter, and Rs. 42,45,508-4 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

TABLE I.

	Cuttack.			Pooree.			Balasore.		
	MDS.	S.	T.	MDS.	S.	T.	MDS.	S.	T.
Balance at close of the last quarter	359	0	0	1,75,836	10	0	.....		
Manufactured or added during the quarter	......			......			......		
Total ...	359	0	0	1,75,836	10	0	......		
Sales during the quarter	127	0	0	29,262	0	0	......		
Wastage	......			167	10	0	......		
Total ...	127	0	0	29,429	10	0	...		
Balance at the close of the quarter	232	0	0	1,46,407	0	0	......		

4. The above statement shows that the total sale of excise salt during the quarter under review amounted to 29,389 maunds, against 34,327 maunds 33 seers 60 tollahs in the previous quarter, and 41,745 maunds 15 seers in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

TABLE II.

	1886-87.		1887-88.		1888-89.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	19,40,237	15,67,730	11,49,787	15,36,549	15,65,958	15,50,499
Foreign kurkutch	3,63,874	6,77,565	3,46,068	3,73,719	2,27,523	3,47,005
Indian kurkutch	1,21,340	1,42,540	2,23,095	1,58,754	2,10,793	97,430
Total ...	24,25,451	23,87,835	17,18,950	20,69,022	20,04,274	19,94,934

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1886-87.		1887-88.		1888-89.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	1,21,340	1,42,540	2,23,095	1,58,754	1,79,419	66,056
Vizagapatam	......	......	......	......	2,400	2,400
Coconada	......	......	......	......	28,974	28,974
Total ...	1,21,340	1,42,540	2,23,095	1,58,754	2,10,793	97,430

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter, as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	Fourth quarter of 1887-88.	First quarter of 1888-89.	Second quarter of 1888-89.	Third quarter of 1888-89.	Fourth quarter of 1888-89.
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government Golahs	10,36,591	8,94,651	9,52,679	15,29,709	16,64,397
Chittagong do. do.	95,487	71,969	43,462	1,31,640	2,32,656
Total ...	11,32,078	9,66,620	9,96,141	16,61,349	18,97,053

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review, and the corresponding quarters of the previous two years, are shown in the table below :—

TABLE V.

PERIOD.	*Viâ* Balikhall.	*Viâ* Sankrail.	*Viâ* Gewakhally.	*Viâ* Kidderpore.	*Viâ* Balliaghatta.	*Viâ* Ruthtollah Ghât.	By the East Indian Railway.	By the Eastern Bengal and South-Eastern Railways or *viâ* Chitpore.
	Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fourth quarter of 1886-87 ...	2,03,640	1,75,780	1,19,792	60,950	5,57,979	1,05,721	9,16,681	1,22,160
Ditto of 1887-88 ...	2,13,508	1,59,072	1,08,228	70,900	4,53,988	7,495	9,16,237	2,04,896
Ditto of 1888-89 ...	2,02,383	1,51,317	94,763	76,600	4,62,963	2,322	8,83,849	1,73,969

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 3,948 maunds 30 seers as noted in the margin, against 8,808 maunds 20 seers in the previous quarter, and 28,271 maunds 10 seers in the corresponding quarter of the previous year.

	Mds.	s.	c.
January ...	2,126	10	0
February ...	303	30	0
March ...	1,518	30	0
	3,948	30	0

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow :—

	Tons.
January	10,190
February	20,180
March	35,930
Total ...	66,300

No shipments were reported during the quarter under review for the port of Chittagong.

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter, as compared with those obtaining during the same period last year :—

TABLE VI.

Description of Salt.	Prices on the 15th January		Prices on the 31st January		Prices on the 14th February		Prices on the 28th February		Prices on the 15th March		Prices on the 31st March	
	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah	78	95	115	95	125	95	170	94	140	92	132	91
French kurkutch	52	......	55	......	60	61	70	61	72	61	72	61
Jedda ditto	52	60	52	60	55	62	70	63	71	62	71	62
Bombay ditto	45	92	90	98	89	97	96	97	96	92	92	92
Italian ditto	52	......	55	......	60	61	70	61	72	61	72	61
Muscat ditto	48	60	48	63	65	60	65	61	55	61	54	61
Rock	65	75	65	75	75	75	75	75	65	75	65	75

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Naraingunge during the quarter under review and the corresponding quarter of 1887-88 :—

TABLE VII.

Port.	Description of Salt.	Admitted into bond.		Cleared.	
		Fourth quarter of 1887-88.	Fourth quarter of 1888-89.	Fourth quarter of 1887-88.	Fourth quarter of 1888-89.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong	Liverpool	......	1,46,470 0 0	90,322 34 0	94,931 25 0
	Nathal	......	......	0 9 0	.
	Jedda	......	......	3 15 0	
	Rangoon	......	......	0 5 0	..
	Bombay	......	......	....	0 16 8
	Muscat	......	......	...	1 36 0
Naraingunge	Liverpool	.. ..	. ..	..	29,898 0 0
	Total ...	......	1,46,470 0 0	90,326 23 0	1,24,831 37 8

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 25th May 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN.			
1	Burdwan May 25, '89	1·65	Weather—seasonable. The late showers have done much good to the standing crops. Price of common rice at Burdwan 16½ seers, Culna 14 seers, Cutwa 14$\frac{1}{16}$ seers, and Raneegunge 15 seers per rupee.
	Culna ...	2·60	
	Cutwa ...	1·90	
	Raneegunge	3·85	
2	Bankoora „ 25, '89	1·51	Weather—seasonable. Ploughing going on everywhere. Cultivation of sugar-cane commenced. *Til*, indigo, and cotton plants doing well. Common rice 16 seers per rupee at Sudder, but the price is stationary at Bishenpore.
	Bishenpore ...	0·62	
3	Birbhum „ 25, '89	3·18	A very heavy storm with 3·12 inches of rain on the 21st. A slight shower on the 23rd. Rain general all over the district. Temperature pleasant. Ploughing going on after the rain. Price of rice remains 13½ seers per rupee.
	Rampur Hât ...	1·70	
4	Midnapur „ 25, '89	2·14	Weather—rather cooler. There have been heavy local showers in most parts of the district. They have come opportunely for ploughing and sowing. The mulberry and worms both suffered much from the heat. At Ghatal cocoons sold at from Rs. 16 to Rs. 30 a maund during the current month. Price of rice at Sudder Rs. 2-9-3, Tamluk Rs. 2-13, and Ghatal Rs. 2-8 per maund. Prices still rising at several thanas.
5	Hooghly „ 25, '89	......	Slight showers of rain have fallen throughout the district during the week, and the prospects of crops in consequence are looking up. Price of common rice at Jehanabad Rs. 2-9, Serampore Rs. 3-4, and Hooghly Rs. 3-6 per maund.
	Serampore ...	1·44	
	Jehanabad ...	1·22	
	Howrah „ 27, '89	1·15	Weather—rainy. Rain very beneficial, more wanted for paddy. Jute being planted. Best rice 10 seers, common rice 12 seers and cheapest rice 13½ seers per rupee at Sudder station, cheapest rice at Ulubariya 14½ seers per rupee.
	Central Districts.		
PRESIDENCY DIVN.			
6	24-Perghs. May 23, '89	2·71	Weather—hot with occasional nor'-westers and rain. The rain has done great good. Sowing of *aus* and *amun* paddy and jute going on briskly. More rain wanted. Price of rice varies from 12½ to 15 seers per rupee.
7	Nuddea „ 25, '89	1·39	Weather—hot and cloudy with high winds and drizzling rain. Sowings of *aus* paddy are going on. Sugarcane and indigo doing well. Recent rain has done much good to the crops. More rain wanted.
	Meherpur ...	0·73	
	Chooadanga ...	0·05	
	Ranaghat ...	1·62	
8	Khoolna „ 25, '89	0·22	Weather—occasionally cloudy; temperature lower than last week. A little rain has fallen in all parts of the district, and prospects are somewhat improved. Land is being prepared for *amun* and sugarcane. Jute is being sown in the head-quarter sub-division, but the prospects of the crop are not good, and in Satkhira it could not be sown for want of rain.
9	Jessore „ 25, '89	1·42	Weather—hot and cloudy. The recent rain has done much good to the sowings. More rain is still wanted. *Amun*, *aus*, jute and indigo are being sown. Prices still rising.
	Narail ...	0·15	
	Bongong ...	0·62	
10	Moorshedabad „ 25, '89	2·61	Weather—cooler with thunderstorms and passing showers; wind generally south-east. Sowing of *aus dhan* is going on over the greater part of the district. The rain has not visited a small area in the north-east corner of the district.
	Lalbagh ...	1·16	
	Jungipore ...	2·30	
	Kandi ...	4·52	
RAJSHAHYE DIVN.			
11	Dinagepur „ 25, '89	0·14	Weather—fairly cool and cloudy. There have been light showers pretty generally throughout the district, but not enough to do much good to forward sowings or growth of rice and jute seedlings. Heavy rain is badly wanted. Coarse rice 13 to 14 seers per rupee.
	Thakurgaon ...	0·82	
12	Rajshahye „ 25, '89	0·73	Weather—hot and cloudy. *Boro dhan* is being reaped. More rain urgently wanted for cultivation and for young paddy.
	Nattore ...	0·30	
	Nowgong ...	0·74	
13	Rungpore „ 25, '89	1·46	Weather—overcast with frequent storms in the earlier part of the week, but steady sunshine at its close. The prospects of the rice and jute crops have greatly improved, but much of the *aus* or early rice was damaged beyond repair by the drought. It will certainly be a poor crop. Cultivators found it difficult to keep down the weeds.
	Gaibanda	2·74	
	Kurigram ...	3·94	
14	Bogra „ 25, '89	0·10	Weather—much cooler; variable sky and winds. Jute and *aus* rice are still being sown, but with poor prospects. Rain is very much wanted. In some places *amun* rice is being sown. Cattle disease is rather prevalent. Common rice is selling at 14½ seers a rupee.
	Sherpore ...	0·12	
15	Pubna „ 25, '89	0·16	Weather—unsettled. A few slight showers. Prospects of newly-sown *aus* jute, and sugarcane improved in the Serajgunge sub-division. *Aus* sowings in the Sudder sub-division considerably restricted by want of rain.
16	Darjeeling „ 25, '89	2·46	Weather—cloudy. Crops progressing favourably. In the Terai 12 annas of jute and 13 annas of *bhadoi* have been sown. The recent rain has done much good.
17	Julpigoree „ 25, '89	5·01	Weather—hot and cloudy. Sowing of *bhadoi* and jute over. The rain has done much good to the crops. Common rice sells at 17 seers per rupee.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca May 25, '89	2·44	Weather—hot and mostly cloudy, with occasional rain. Sowing of jute and *aus* and *amun* paddy nearly completed. Prospects of standing crops promising. Crops in low lands have been damaged in parts of the district owing to the sudden rise of rivers. Good rain in Manikgunge has washed away the grubs that attacked the jute plants in places.
19	Furreedpur „ 25, '89	1·40	Weather—cloudy and cool. Sowing of paddy almost completed; but prospects of *aus* not favourable owing to want of rain. Crops in low lands will probably be damaged by the early rise of the Padma.
20	Backergunge „ 25, '89	1·64	Weather—hot. Ploughing for *aus dhan* progressing.
21	Mymensingh „ 25, '89	2·49	Weather—variable with storms. State and prospects of crops generally good, except in the Tangail sub-division.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts—concld.		
CHITTAGONG DIVN.			
22	Chittagong May 28, '89	0·50	Weather—seasonable. Prospects of *aus* fair. Prices rising.
23	Noakholly „ 25, '89	2·47	Weather—hot in day, cool at night. Sowing of *aus* nearly completed. The late rain has done some good to the standing crops. More rain wanted. Price of rice stationary.
24	Tipperah „ 25, '89	2·74	Rain fell on 5 days. Weather bright with rain-storms. Prospects fair. Sowing of *dhan* not yet completed, but nearly so. Jute doing well.
25	Chittagong Hill Tracts. „ 24, '89	1·84	Weather—excessively hot. Sowing in *jums* reta·d·d owing to short rainfall. Rain badly wanted. Plough cultivators beginning to despair of their *aus* paddy crop.
	Hill Tipperah „ 25, '89	2·43	Weather—occasionally stormy. Prospects of sugarcane and jute continue to be fair. *Aus* paddy still being sown.
BEHAR.			
PATNA DIVN.			
26	Patna May 25, '89	1·94	Weather—hot in the first part of the week. The rain has done some good to *cheena* and preparation of fields for *bhadoi*. Harvesting of *boro* rice continues. Prices of food-grains are almost stationary, with slight indication of rise in the prices of rice, wheat and gram in the Barh sub-division.
	Barh ...	0·46	
	Behar ...	1·58	
	Dinapur ...	0·62	
27	Gya „ 25, '89	Slight rain.	Weather—cloudy with west and east winds alternately. Heavy rain in parts of the district. Sugarcane coming on well. Prices of food-grains continue to rise.
28	Shahabad „ 25, '89	0·49	Weather—comparatively cool and cloudy for the last few days with showers. Some crops of *cheena* sown in succession to the crop recently cut are on the ground. The rain has benefited them and also the sugarcane. The mango crop is a failure. The *mohwa* crop is said to have been good.
	Sasseram ...	0·18	
29	Dbrbhunga „ ..	...	Report not received.
30	Mozufferpur „ 25, '89	0·30	Strong easterly winds. Rain more or less everywhere, but very unequal—heavier at Hajipur than elsewhere. The rain will help the cultivators to prepare lands for *bhadoi* sowings, but more rain is required to ensure their success.
	Hajipur ...	1·03	
	Sitamarhi ...	0·02	
31	Sarun „ 25, '89	0 17	Weather—hot; cloudy for the last few days. The rain has been beneficial to *cheena* and indigo.
32	Chumparun „ 25, '89	0·27	Weather—passing clouds; temperature variable. The rainfall in the Sudder sub-division was too small to do any appreciable good; in Bettiah it has been beneficial. More rain is urgently needed. Prices high, and the poorer classes all over the district are in disti ess.
	Bettiah ..	0·73	
BHAGULPORE DIVN.			
33	Monghyr „ 25, '89	0·74	Weather—cool and cloudy with easterly wind. A good shower with storm on 21st throughout the district, which has facilitated ploughing of lands for *bhadoi* crops and has improved the prospects generally. Prices stationery.
	Beguserai ...	1·68	
	Jamooe ..	1·82	
34	Bhagulpur „ 25, '89	1·53	Weather—mild since the rainfall on the 22nd instant. Ploughing for *bhadoi* sowings commenced. The late rainfall has improved prospects generally, but prices remain stationary. More rain urgently wanted in the north-eastern pergunnahs, where the situation remains anxious.
	Banka ...	1·05	
	Madhepurah .	1·65	
	Soopool .	1·04	
35	Purneah „ 25, '89	1·99	Slight fall of rain almost everywhere, not nearly enough. Weather grows cooler. Much more moisture required, not only to save the seed already put into the ground, but to enable agricultural operations to go on. Want of moisture is operating injuriously in respect of future crops.
	Kissengunge	3·18	
	Arrariah ...	0·99	
36	Maldah „ 25, '89	1·28	Weather—cool, cloudy and fine. Harvesting of *boro* continues with a fair out-turn. Rain has done much good to the standing crops, and has assisted the sowing of *bhadoi* and the preparation of lands for winter rice crops Moie rain still wanted. Price of rice has begun to fall.
37	Sonthal Perghs. „ 25, '89	3·03	Weather—cloudy and threatening. The rain will in most places enable the people to prepare their lands for the *bhadoi* sowings, and will benefit the sugaicane and indigo crops. Prices high.
	Godda ...	3·10	
	Jamtara ...	0 88	
	Pakour ...	0·62	
	Rajmahal ...	0·46	
ORISSA.			
ORISSA DIVN.			
38	Cuttack „ 25, '89	0·17	Weather—dry. Ploughing for *beali* and *sarad* rice continues. Sowing has commenced in some places. Price of rice stationary.
39	Pooree „ 24, '89	1·06	Weather—seasonable. The recent rain is favourable to the ploughing of lands for the ensuing *sarad* crop. Common rice varies from 21 seers to 14 seers 7 chittacks per rupee in the Sudder sub-division and from 15 seers to 13 seers 2 chittacks in the Khoorda sub-division. There have been sli,:ht showers in Khoorda.
40	Balasore „ 25, '89	1·34	Weather—seasonable. Abundant rainfall all over the district, most favourable for cultivation.
CHOTA NAGPORE.			
	South-West Frontier Agency.		
CHOTA NAGPORE DIVN.			
41	Hazaribagh May 25, '89	0·41	Weather—cool. Unsettled, cloudy on and off. Slight rain in several thannahs. Rain will do good to sugarcane. More rain required for ploughing. Prices show a tendency to rise.
42	Lohardugga „ 25, '89	0 29	Slight rain during the week. Sowing of *gora dhan* is going on. Outturn of *Bysakhi* lac is not good. Prices steady at head quarters, but rising in the Palamow sub-division.
43	Singbhoom „ 25, '89	0 72	Weather—stormy during the week; still cloudy. Ploughing and sowing operations have commenced. Sugarcane doing well. Prices lower in Dhalbhum.
44	Manbhoom „ 25, '89	0 54	Weather—cool with frequent storms. Good rain has fallen and facilitated early ploughings. More is required. Rice sells at from 14 to 21 seers per rupee
	Govindpur ...	0 08	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 28th May 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
			STATION OBSERVATIONS.													
Orissa.	Pooree	Pooree	29·732	29·744	—	SW	298·0	90·2	19th May	78·1	23rd May	89·6	78·0	83·8	—	82·5
		Gopalpore	29·707	29·757	+·019	Variable	374·0	89·2	23rd „	77·3	23rd „	88·2	80·8	84·5	—0·5	85·5
		False Point	29·718	29·740	+·008	Southerly	385·0	91·5	21st „	73·1	22nd & 23rd May.	90·3	77·7	84·0	—2·0	84·9
	Cuttack	Cuttack	29·656	29·737	+·018	Southerly	121·0	105·9	18th, 22nd May.	71·8	18th „	101·6	78·0	89·8	—1·4	86 0
	Balasore	Balasore	29·669	29·728	+·017	S & SW	297·6	105·5	20th „	71·8	18th, 22nd May.	97·7	76·9	87·3	—0 6	83·2
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·714	29·740	+·016	SSW	518·0	94·2	19th „	71·5	20th, 22nd May.	92 0	79·4	85·7	—0·9	83·3
	Midnapore	Midnapore	29·553	29·704	—·005	Southerly	223·9	110·4	19th „	69·2	20th „	101·8	75·6	88·7	—1·2	84·3
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·708	29·729	+·011	Southerly	178·0	98·4	19th „	69·2	22nd „	93 6	75·8	84·5	—2·5	82·6
	Burdwan	Burdwan	29·605	29·705	—·000	S	117·3	108·7	20th „	72·4	22nd „	90·4	77 7	88·6	—0·2	82·0
	Bankoora	Bankoora	29·389	29·689	—	Variable	157·0	112·1	20th „	69·6	22nd „	102·4	77·5	90·0	—	84·5
	Beerbhoom, West Burdwan	Raneegunge	29·378	29·684	+·007	Easterly	117·3	113·5	19th „	69·9	22nd „	103·1	79·1	91·1	—0·7	85·7
	Moorshedabad	Berhampore	29·651	29·718	+ 001	Variable	121·3	104·7	20th „	70·8	22nd „	97 0	75·6	86·3	—2·4	81·6
	Nuddea	Krishnaghur	29·680	29·746	+·033	SSW	201·1	106 3	19th „	70·3	20th „	98 0	75·5	86 7	—1·7	82 3
	Jessore, Khoolna	Jessore	29·698	29·732	+·004	Southerly	115·8	102·8	18th „	73·9	23rd „	98 0	77·5	87·8	+1·1	84·5
East Bengal.	Chittagong	Chittagong	29·703	29·793	+·017	Southorly	109·0	93·2	23rd „	72·0	19th „	91 5	77 6	84·6	+1·0	82·7
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·751	29·762	+·033	Calm	144·0	93·8	21st May	74·9	22nd „	91·9	77 8	84·9	—0·1	84·3
	Noakholly	Noakholly	29·725	29·709	—	SE & Calm	136 4	92·5	19th „	71·8	24th „	91 5	75 6	83·6	—	82·9
	Furreedpore	Furreedpore	29·708	29 748	+·005	E	189·0	90 0	18th „	72·4	24th „	95·0	75·0	85·0	+0·7	81·6
	Dacca	Dacca	29·736	29·759	+·016	ESE	123 0	94 6	19th „	70·2	21st „	92·0	74·1	83·1	—1·6	81·1
	Commillah	Commillah	29·752	29 788	+·037	South-Easterly	136 1	94 3	18th „	68·8	21st „	92·2	73 6	82 9	—1·3	82·0
	Mymensingh	Mymensingh	29 700	29·758	—·004	Easterly	150 9	92·3	18th „	67·6	19th, 21st May.	83·2	71·2	79·8	—2·4	78·1
North Bengal.	Bogra	Bogra	29·659	29·723	+·006	Calm	89·8	98 3	19th „	72·3	24th „	93·9	73 4	83 7	—1 7	80·7
	Pubna	Serajgunge	29·689	29 736	+·003	Easterly	111·3	96·1	18th „	69·7	21st „	90·9	72 8	81 9	—2 5	78·1
	Rajshahye	Rampore Beauleah.	29 656	29·725	+·010	South-Easterly.	147·4	102·8	20th „	72·2	22nd, 24th May.	96·1	75·8	86·0	—0·8	82 1
	Maldah	Maldah	29·645	29·726	—	SE, NE	84·8	107·3	19th „	72 1	22nd „	103·2	74 1	88·6	—	84 0
	Dinagepore	Dinagepore	29 628	29·749	+ 051	North-Easterly	214·0	101·1	18th „	70·1	23rd „	94·5	74·1	84 3	+0·1	79·8
	Rungpore	Rungpore	29 655	29 782	+·020	NE	140 1	94 3	18th „	69·7	23rd „	89·3	72·6	81·0	—0·7	77·4
	Julpigoree, Cooch Behar	Julpigoree	29·488	29 781	—·002	E & NE	272 3	94·0	18th „	65 4	20th „	87 3	67 4	77·4	—3·1	74·7
	Darjeeling Hill Tracts	Darjeeling	22·946	—	—·005	Variable	148·1	66·1	18th „	40·1	22nd „	61 2	50·4	55·8	—2·7	55·6
North Behar.	Purneah, North Bhagulpore	Purneah	29·611	29·738	+·023	North-Easterly & Calm	54·1	108·3	19th „	69·8	22nd „	98·9	75·1	87·0	+1·6	81·9
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·555	29·724	+·015	ESE	199 0	104·4	15th May	73·8	22nd „	96 8	77·4	87 1	+0·6	82·3
	Chumparun	Motihari	29·483	29·712	+ 020	E	254·0	106 8	18th „	68·8	22nd „	97·6	74 4	86·1	—1·0	80·8
	Sarun	Chupra	29 506	29 700	+·015	E	177·1	110·7	19th „	71·8	24th „	100·7	76·3	88 2	—1 6	83·2
South Behar.	Shahabad	Dehree*	29·332	29·683	+·019	E	236·3	113·0	20th „	67·5	24th „	106·4	79·1	92·8	+0·1	87·6
		Buxar	29·444	29·686	+·014	E	203 1	109·9	19th, 20th May.	72·8	23rd „	100·8	78·1	89·4	—2·7	83·4
		Arrah	29 507	29·705	+·035	Easterly	159 1	110·9	19th „	71·2	23rd „	101·3	76 1	88 7	—3·2	83 6
	Gya	Gya	29 328	29 701	+·028	ENE	176·1	112·1	20th „	72·8	23rd „	105·0	78 6	91 8	—0·9	85·4
	Patna	Bankipore	29 520	29 705	+·014	E	148 7	111·1	18th, 19th May.	70·7	23rd „	101·1	76·2	88·7	—2·3	81 4
	South Bhagulpore, Monghyr	Bhagulpore	29·548	29·712	+·027	E	106·0	109·8	18th „	70·0	22nd „	96 9	75·6	86·2	—1·7	81·4
	Sonthal Pergunnahs	Doomka	29·204	29 698		E	262·3	110·	19th, 20th May.	69·8	24th „	100·3	78·2	89·2	—	85·6
Chota Nagpore.	Hazaribagh	Hazaribagh	27·718	29 718	— 002	South-Westerly	265 5	107 0	20th „	68·2	22nd „	100·2	75·5	87 9	+0 6	83 7
	Lohardugga, Manbhoom	Ranchee	27 598	29·690	+·003	South-Westerly	213·3	106 0	21st „	68·4	22nd „	100·0	75·0	87·5	0	83·2
	Singhbhoom	Chyebassa	28 945	29·703	—	South-Westerly	92·0	109·2	21st „	73·0	22nd „	102·7	77·5	90·1	—	86·0
Assam.	Assam	Sibsagar	29·501	29·811	+·042	NE		90·6	23rd „	64·8	20th „	83·8	71·9	77·9	—2·6	75·0
		Dhubri	29·655	29·774	+·017	ENE	265·6*	87 7	24th „	68·4	19th „	82 1	71·0	76·6	—5·0	73·9
		Silchar	29 695	29·802	+·021	Calm	†74·8*	93·5	23rd „	69·3	20th „	90·9	71·6	81·3	—0·8	77·2

* Mean of 6 days. † Mean of 5 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 24th of May 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
87	4·3	1·23	0·09	0·55	0·70	2·06	−1·36	0·70	0·75	−0·05	2·3	1·0	Pooree ...	Pooree	Orissa.
74	1·3	1·10											Gopalpore ...		
91	7·0	0·38											False Point ...		
70	2·7	2·41	0·44	0·64	1·01	2·25	−1·24	0·91	0·79	+0·12	2·5	1·1	Cuttack ...	Cuttack	
81	2·3	1·27	1·60	0·74	2·75	3·31	−0·56	2·21	1·10	+1·11	2·0	1·4	Balasore ...	Balasore	
81	5·1	2·10	2·24	0·65	2·59	3·49	−0·90	2 59	0·97	+1·62	2·0	1·2	Saugor Island ...	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
67	2·9	2·13	2·06	0·57	2·43	3 90	−1·47	2·27	0·83	+1·44	3·0	1·0	Midnapore ...	Midnapore	
78	4·1	2·56	1·46	0·67	1·75	4·09	−2·34	1·70	1·05	+0·65	2·7	1·5	Calcutta ...	24-Pergunnahs...; Howrah ... ..; Hooghly	
70	7·1	1·65	2·05	0 76	2·81	3·50	−0·69	2·81	1·09	+1·72	2·0	1·6	Burdwan ...	Burdwan	
70	4·7	1·49	1·24	0·45	2·44	2·53	−0·09	2·30	0·69	+1·61	2·0	1·1	Bankoora ...	Bankoora	
62	2·6	3 73	3·56	0·51	3·80	2 16	+1·64	3·80	0·74	+3 06	2·3	1·5	Raneegunge ...	Beerbhoom ... ..; West Burdwan ..	
77	5·6	2 61	2·65	0·80	5·09	3·30	+1·79	4·81	1·14	+3·67	2 3	1·6	Berhampore ..	Moorshedabad	
73	5·6	1·31	0 95	1·21	2·34	4·38	−2·04	1·54	1·54	0	2·2	1·9	Krishnaghur ...	Nuddea	
79	4·6	0·49	0·30	1·03	1·19	4·93	−3·74	0·75	1·42	−0·67	1 9	1·8	Jessore ...	Jessore ... ...; Khoolna	
79	4·9	0·49	0·60	2·09	4·97	7·48	−2·51	0·95	2·74	−1·79	3·0	2·2	Chittagong ...	Chittagong	East Bengal.
			1·72	1·59	5·25	7·66	−2·41	2·85	2·24	+0 61	2·0	2·5	Demagiri ...	Chittagong Hill Tracts	
80	3·4	0·10	1·20	1·36	2·11	5·69	−3·58	2·07	1·89	+0·18	1 8	2 2	Barrisal ..	Backergunge	
77	5·7	2·04	1·34	1·70	3·06	8 04	−4 98	1·94	2·38	−0·44	2·5	2·4	Noakholly ...	Noakholly	
80	2·0	1·34	0 86	1·44	3·04	6·28	−3·24	1·22	2 01	−0·79	1·7	2·4	Furreedpore ...	Furreedpore	
81	3·6	1·05	2·17	0·98	6·19	6·38	−0·19	3·03	1·56	+1·47	3 5	1·9	Dacca ...	Dacca	
79	4·3	2 48	1·25	1·37	4·61	7 85	−3·24	1·75	1·85	−0·10	3·3	2 4	Commillah ...	Tipperah	
78	5·3	1·69	1·73	1·71	6·12	7·25	−1·13	3·07	2 43	+0·64	2·2	2 3	Mymensingh ..	Mymensingh	
70	3·0	0·11	0·49	1·45	1·66	5 09	−3·43	0·99	1·92	−0·93	1·8	2 1	Bogra ...	Bogra	North Bengal.
81	2·9	0·57	0·37	1·29	5·46	5 12	+0·34	3 29	1·83	+1·46	2 5	2 4	Serajgunge ...	Pubna	
76	2·4	0·57	0·59	1·06	1·39	3·91	−2·52	0·70	1 44	−0 74	1 3	1 8	Rampore Beauleah	Rajshahye	
72	3·4	1·28	0·70	1·09	0·70	3·18	−2·48	0·70	1·51	−0·81	1·5	1 4	Maldah ...	Maldah	
70	5·3	0·16	0·53	0·98	0·53	3 50	−2·97	0·53	1·45	−0·92	1·6	1·0	Dinagepore ...	Dinagepore	
79	5·0	1·43	1·70	2 67	2 90	7·69	−4·79	2·57	3 86	−1 29	3 3	2·4	Rungpore ...	Rungpore	
84	6·7	3 90	5·16	3·15	7·57	8·65	−1 28	5 53	4·38	+1·15	4·0	3·5	Julpigoree ...	Julpigoree ... ..; Cooch Behar	
93	8·4	2·46	3·07	2·45	5·99	7·37	−1·38	3·37	3·14	+0·23	4·8	3·6	Darjeeling ...	Darjeeling Hill Tracts	
72	3·4	1·99	1 77	0·86	1·77	3·24	−1·47	1·77	1·34	+0·43	1·4	1·1	Purneah ...	Purneah ... ..; North Bhagulpore ...	North Behar.
			0·45	0·33	0·45	1·67	−1·22	0·45	0·56	−0·11	1·3	0·6	Mozufferpore ...	Mozufferpore	
68	2·0	0·21	0·56	0·36	0·56	1·84	−1·28	0·56	0 60	−0·04	1·3	0·6	Durbhunga ...	Durbhunga	
65	3·7	0·25	0·51	0·36	0·51	1·84	−1·33	0·51	0·60	−0·09	1·5	0 6	Motihari ..	Chumparun	
68	2·4	0·24	0·43	0·16	0·43	1·26	−0·83	0·43	0·32	+0·11	1·0	0·4	Chupra ...	Sarun	
51	2·1	0·03											Dehree ...		South Behar.
55	3·9	0·18	0·22	0·12	0·22	0·06	−0·44	0·22	0·19	+0·03	1·4	0·5	Buxar ...	Shahabad	
64	2·7	0·49											Arrah ...		
66	4·9	—	0·24	0·63	0·24	1·15	−0·91	0·24	0·75	−0·51	1·0	0·6	Gya ...	Gya	
69	2·9	1·94	1·78	0·48	1·78	1·30	+0·48	1·78	0·64	+1·14	2 0	0·6	Bankipore ...	Patna	
74	2·9	1·53	1·34	0·50	1·34	1·60	−0·26	1·34	·76	+0·58	1·0	0·7	Bhagulpore ...	South Bhagulpore ..; Monghyr .. .	
65	0·4	3·03	1 86	0·67	1·90	2·38	−0·48	1·86	0·98	+0·88	2·0	0 9	Doomka ..	Sonthal Pergunnahs .	
49	3·4	0·45	2·60	0·33	0·60	1·37	−0·77	0·60	0·39	+0·21	2·0	0·9	Hazaribagh ...	Hazaribagh	Chota Nagpore.
55	3·1	0·26	0·35	0·32	0·35	1·18	−0·83	0·35	0·53	−0·18	2·7	0 9	Ranchi ...	Lohardugga	
			0·31	0·65	0·42	2·00	−1·58	0·41	0·89	−0·48	2·0	1·3		Manbhoom	
56	3·3	1·84	0·72	0·80	1·96	2·71	−0·75	1·96	1·18	+0·75	2·0	1 9	Chyebassa ...	Singhboom	
92	9·1	1·92											Sibsagar	Assam	Assam.
87	8·0	3·28											Dhubri		
86	6·3	3·61											Silchar		

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. ... denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ... years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional ...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 24th of May 1889.

Meteorological division.	District.	Station.	RAINFALL. Saturday, 18th May 1889.	Sunday, 19th May.	Monday, 20th May.	Tuesday, 21st May.	Wednesday, 22nd May.	Thursday, 23rd May.	Friday, 24th May.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	...	...	...	0·09	0·87	0·10	...	3	1·06	1·06	1·83	1·06	0·71
		Khurdah ...	...	...	...	...	...	0·07	0·43	2	0·50	0·50	2·49	0·50	1·09
		Banpur ...	...	...	...	...	...	0·20	...	1	0·20	0·20	1·44	0·20	0·15
		False Point ...	...	...	...	0·33	0·04	...	0·62	3	0·99	1·03	2·50	1·03	1·08
		Gop ...											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore											2·07		0·51
		Banki ..	0·11	...	0·08	...	...	0·07	0·08	4	0·34	0·55	1·16	0·34	0·65
		Cuttack ...	...	0·07	...	...	0·01	0·09	...	3	0·17	2·47	2·42	2·47	1·08
		Kendrapara ...	0·04	...	0·65	...	...	...	...	2	0·69	0·73	2·75	0·73	0·86
		Jajpore ...	...	...	0·55	...	...	...	...	1	0·55	0·91	2·80	0·55	0·90
		Dharmsala ...											?		?
		Salipore ...	0·08	...	0·90	...	...	...	...	2	0·98	0·98	?	0·98	?
	Balasore ..	Chandbali ...	0·10	...	...	...	1·70	...	...	2	1·80	2·50	3·27	2·50	0·73
		Bhuddruck ...	0·14	...	0·30	...	2·58	...	0·48	4	3·50	4·48	3·62	4·20	1·50
		Sorah ...	...	...	...	1·80	...	...	...	1	1·80	2·31	3·87	2·26	1·65
		Balarole ..	...	...	...	1·00	...	...	...	1	1·00	3·90	3·23	1·67	1·07
		Jellasore ..	...	...	...	...	...	...	...	Nil	Nil	Nil	2·64	Nil	0·99
		Baripodah ...	...	...	0·33	1·49	0·08	...	...	3	1·85	4·27	3·44	3·25	0·61
SOUTH-WEST BENGAL.	Midnapore ..	Contai	...	...	0·75	...	0·48	...	0·22	3	1·45	1·45	3·34	1·45	0·91
		Saugor Island	...	...	1·45	...	0·65	...	...	2	2·10	2·13	3·35	2·13	1·12
		Tumlook ...	...	...	0·60	...	0·80	0·10	...	3	1·00	1·30	3·43	1·30	0·78
		Midnapore ...	...	...	0·53	...	0·41	...	1·20	3	2·14	2·51	4·13	2·36	0·98
		Ghattal ...	...	...	0·60	...	2·26	...	0·19	3	3·05	3·47	4·12	3·17	0·72
		Kukrahaty ...	...	...	0·55	...	1·43	...	...	2	1·98	2·76	?	2·76	?
		Herta ...	...	...	0·32	...	1·34	...	2·04	3	3·70	3·93	?	3·93	?
		Bhagwanpore	...	...	...	...	1·11	...	0·60	2	1·71	2·02	?	2·02	?
		Garbetta ...	...	...	...	...	1·45	...	1·15	2	2·60	3·10	?	3·10	?
	24-Pergunnahs	Diamond Harbour ...	...	...	0·80	...	2·60	...	...	2	3·40	4·42	3·79	4·42	0·88
		Canning Town	...	...	0·64	...	0·32	...	1·77	3	1·77	2·52	?	2·52	?
		Alipore Jail ..	...	...	0·60		1·52	...	0·59	3	2·71	2·83	3·84	2·83	0·86
		Barrackpore...	...	0·52	...	0·50		...	...	2	1·02	1·62	3·71	1·62	0·69
		Dum-Dum ...	...	...	0·71	...	0·36	...	0·11	3	1·18	1·27	4·18	1·27	1·11
		Baraset ..	...	0·54	...	0·87	...	...	...	2	1·41	1·98	4·44	1·90	1·16
		Buseerhat ...	...	...	0·55	...	0·21	...	0·64	3	1·40	1·80	4·61	1·80	1·68
	Howrah ..	Howrah .	...	0·76	...	0·46	...	0·42	...	3	1·04	1·69	3·88	1·64	0·91
		Mohesreka (*Oolooberiah.*)	...	...	0·29	...	0·60	...	0·09	3	0·98	1·10	4.74	1·10	1·07
	Hooghly .	Serampore ...	...	...	0·64	...	0·80	...	...	2	1·44	1·94	3·56	1·91	0·68
		Hooghly ...	...	...	0·94	0·31	...	...	0·14	3	1·39	1·79	4·21	1·39	1·04
		Johanabad .	...	...	0·37	...	0·85	...	0·19	3	1·41	1·48	3·78	1·48	1·36
	Burdwan ...	Culna ..	...	...	1·90	...	0·55	...	0·15	3	2·60	2·72	3·62	2·72	0·97
		Burdwan ...	...	...	...	...	1·47	...	0·18	2	1·65	3·81	3·82	3·81	1·16
		Cutwa ...	...	...	...	...	1·90	...	...	1	1·90	1·90	3·58	1·90	1·14
		Raneegunge .	...	...	0·02	...	3·60	...	0·23	3	3·85	4·00	2·04	4·00	0·87
		Mankur ...	...	...	...	...	1·25	...	0·50	2	1·75	2·80	?	2·80	?
	Bankoora ..	Bankoora ...	...	...	0·05	...	0·83	...	0·63	3	1·51	2·72	2·50	2·72	0·87
		Bishenpore ...	...	...		...	0·62	0·96	...	2	1·58	2·74	3·43	2·74	0·70
		Maliara ..	...	...		0·92	...	...	...	1	0·92	1·49	2·01	0·92	0·53
		Khatra ...	...	...	0·13	...	0·80	...	...	2	0·93	2·80	2·16	2·80	0·65
		Indas ...	...	...	0·13	...	0·60	...	1·30	3	2·03	3·38	?	2·40	?
		Kotalpore .	...	...	...	...	0·97	...	0·66	2	1·63	1·63	?	1·63	?
		Anua	...	...	...	0·40	...	...	0·05	2	0·45	0·63	?	0·53	?
		Gangajalghati	...	...	...	...	1·30	...	0·56	2	1·86	2·29	?	2·29	?
		Raipore ..	...	...	0·12	0·25	0·55	...	...	3	0·92	1·42	?	1·42	?
		Sonamukhi ..	...	...	...	...	1·19	...	0·54	2	1·73	4·87	?	4·87	?
	Beerbhoom	Bh. Soory ..	...	...	...	...	3·12	...	0·06	2	3·18	3·18	2·28	3·18	0·77
		Hetampore .	...	...	...	4·65	...	...	0·47	2	5·12	5·12	1·83	5·12	0·49
		Rampore Haut	...	...	...	...	1·70	...	0·40	2	2·10	2·90	2·50	2·90	0·83
		Bolpore .	...	...	...	...	1·74	...	...	1	1·74	2·44	?	2·44	?
		Murarai ...	...	...	...	...	2·10	...	1·56	2	3·66	3·86	?	3·66	?
	Nuddea ...	Ranaghat .	...	...	0·83	...	0·76	0·03	0·46	4	2·08	2·17	3·49	2·08	1·11
		Kishnaghur ..	...	...	1·00	...	0·34	...	0·05	3	1·39	1·51	4·40	1·51	1·45
		Choondanga .	...	...	...	...	...	...	...	Nil	Nil	1·95	5·40	1·30	2·13
		Meherpore ...	...	0·10	...	...	0·63	...	0·31	3	1·04	3·21	3·79	1·29	1·23
		Kooshtea	...	...	...	...	...	...	0·22	1	0·22	2·83	4·80	1·18	1·74
	Kheolna ..	Satkhira .	...	0·26	...	0·13	...	0·31	...	3	0·70	1·11	4·20	0·70	0·91
		Bagirhat ..	...	...	0·36	...	0·15	...	...	2	0·51	0·79	5·11	0·79	1·45
		Khoolna ...	...	...	0·12	...	0·05	...	0·05	3	0·22	0·44	5·11	0·44	1·25
	Jessore ..	Narail	...	...	...	...	0·15	...	0·22	2	0·37	0·92	5·54	0·92	1·69
		Jessore ...	...	...	...	...	0·03	...	0·46	2	0·49	1·05	5·41	0·97	1·52
		Jhenidah ...	...	...	...	...	...	...	...	Nil	Nil	2·29	4·68	0·19	1·69
		Magoorah ...	...	...	...	...	...	...	0·17	1	0·17	1·85	5·65	0·95	1·85
		Bongong ...	...	...	0·55	...	0·07	...	...	2	0·62	1·03	3·82	1·03	0·99
	Moorshedabad	Kandi ...	...	...	0·57	...	2·40	...	1·55	3	4·52	4·82	3·11	4·82	1·15
		Berhampore ...	...	...	0·03	...	1·53	...	1·05	3	2·61	7·62	3·72	7·38	1·31
		Lalbagh ...	...	...	...	...	1·16	...	0·56	2	1·72	5·32	3·55	5·32	1·12
		Azimgunge ...	...	...	...	...	1·09	...	0·75	2	1·84	4·70	3·19	4·14	1·28
		Jungipore ...	...	...	...	...	1·43	...	0·60	2	2·03	3·29	2·66	2·90	0·69
		Lalgola ...	...	...	...	...	2·95	...	0·20	2	3·15	4·75	3·56	4·30	1·31
		Jiagunge ...	...	...	...	...	1·03	...	0·60	2	1·63	4·07	?	3·45	?
		Akhrigunj ...	...	...	...	...	0·68	...	1·07	2	1·75	2·73	?	2·63	?
		Patkabari ...	...	...	...	...	1·08	...	...	1	1·08	3·98	?	1·68	?
EAST BENGAL	Chittagong ...	Cox's Bazar ..	...	...	...	0·30	...	...	0·40	2	0·70	5·80	8·31	0·80	3·40
		Chittagong ...	...	0·07	0·19	...	0·20	...	0·05	4	0·51	4·13	6·65	0·61	2·07
		Kutubdia ...	0·11	...	1·23	...	...	...	...	2	1·34	2·86	?	1·34	?
		Satkanya ...	...	...	0·50	...	...	...	...	1	0·50	3·14	?	0·98	
	Chittagong Hill Tracts.	Rangamati ...	...	1·16	0·26	...	...	...	0·42	3	1·84	5·59	7·71	3·59	2·08
		Ruma ...	...	...	1·60	...	...	...	...	1	1·60	4·90	7·58	2·10	2·39
	Backergunge	Patuakhally ..	...	...	0·45	0·05	...	...	1·37	3	1·87	2·52	5·99	2·52	2·18
		Ferozepore ...	...	...	0·91	...	...	...	...	1	0·91	1·89	5·62	1·89	1·85
		Burrisal ...	...	...	0·08	...	...	...	...	1	0·08	1·05	5·63	1·01	1·76
		Bhola ...	...	...	0·09	...	1·83	...	...	2	1·92	2·94	5·50	2·83	1·77

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 24th of May 1889—*contd.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 18th May 1889.	Sunday, 19th May.	Monday, 20th May.	Tuesday, 21st May.	Wednesday, 22nd May.	Thursday, 23rd May.	Friday, 24th May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL —*concld.*		*Gournaddi* ...	...	...	...	...	...	...	...				?		?
		Bauphal ...	...	...	0·05	...	0·07	0·22	...	3	0·34	1·69	?	0·34	?
	Noakholly ..	Noakholly ..	...	...	...	0·45	...	1·89	0·13	3	2·47	3·25	7·34	2·47	2·18
		Fenny ...	...	...	0·60	...	0·85	...	...	2	1·45	4·10	8·74	2·65	2·69
		Harishpore ...											?		?
		Ramganj ..	...	...	...	0·21	...	...	...	1	0·21	1·37	?	0·40	?
	Furreedpore	Madaripore ...	...	...	...	...	...	...	...	Nil	Nil	0·65	7·13	0·21	2·12
		Furreedpore...	0·15	...	...	...	...	1·20	0·07	3	1·42	2·82	5·87	1·72	1·97
		Goalundo ..	...	0·74	...	...	...	...	0·41	2	1·15	5·65	5·85	1·71	1·94
	Dacca ...	Munshigunge	...	...	0·51	0·60	0·08	...	0·92	4	2·11	5·67	6·71	3·01	1·59
		Dacca ...	...	...	0·16	0·58	...	...	1·70	3	2·44	7·63	6·40	3·17	1·66
		Naraingunge	...	...	0·89	0·41	...	...	0·61	3	1·91	6·77	5·51	2·83	0·91
		Manickgunge	...	0·06	2·27	0·04	...	...	0·85	4	3·22	5·65	6·88	4·10	2·06
		Joydebpore ..	...	...	...	0·38	...	...	0·21	2	0·59	9·41	?	2·15	?
	Hill Tipperah	Agartola ...	...	...	...	1·08	...	...	1·35	2	2·43	6·60	8·26	2·43	1·88
	Tipperah ..	Comilla ...	...	0·42	0·20	0·18	...	1·70	0·24	5	2·74	6·23	7·67	2·84	1·87
		Chandpore ..	...	...	0·15	...	0·30	...	...	2	0·45	1·75	7·22	0·65	1·40
		Brahmunberia	...	0·08	0·02	0·41	0·22	...	0·01	5	0·74	5·19	8·23	2·27	2·27
		Ramchandrapore.	...	...	0·02	1·30	...	...	0·22	3	1·54	4·83	?	3·27	?
		Nasirnagar...	...	...	...	1·75	...	...	...	1	1·75	7·85	?	4·05	?
		Daudkandi ..	...	...	0·80	0·60	...	...	0·50	3	1·90	5·85	?	2·70	?
		Kasba ...	...	...	0·05	0·54	...	...	0·75	3	1·34	5·31	?	3·04	?
		Laksham ..	...	...	0·90	0·15	...	...	...	2	1·05	1·70	?	1·70	?
	Mymensingh..	Kishoregunge	...	0·38	0·06	1·04	...	...	...	3	1·48	5·90	7·81	2·56	2·53
		Atia (*Tangail*)	...	1·52	...	...	...	...	...	1	1·52	10·15	5·30	3·63	1·85
		Mymensingh	...	...	0·54	0·95	...	...	0·09	3	1·58	5·57	8·26	3·19	3·22
		Jamalpore ..	...	...	...	1·03	...	...	...	1	1·03	3·10	6·73	1·99	2·11
		Netrokona ...	...	0·26	0·33	2·30	...	...	0·22	4	3·11	6·21	8·16	3·38	2·47
		Subornakhali	...	...	...	...	...	...	0·09	1	0·09	3·96	?	2·71	?
		Durgapore ..	...	3·30	0·60	0·60	...	...	1·50	4	6·00	9·07	?	6·45	?
		Sherepore Town											?		?
		Dewanganj	...	...	0·30	...	...	...	...	1	0·30	1·10	?	0·30	?
NORTH BENGAL.	Pubna	Pubna ..	...	...	...	...	...	...	0·16	1	0·16	3·64	4·87	0·27	1·58
		Seraigunge ..	...	...	0·13	0·02	0·35	...	0·07	4	0·57	7·24	5·05	0·30	2·08
	Bogra	Sherpore .	...	...	...	1·24	0·11	...	...	2	1·35	2·21	5·41	1·47	1·98
		Nowkhilla ..	...	...	...	0·06	0·06	...	...	2	0·12	2·80	4·37	1·43	1·18
		Bogra ..	...	...	...	...	...	0·10	...	1	0·10	0·81	6·06	0·65	2·54
		Panchbibi	...	...	0·08	...	...	...	0·29	2	0·37	6·37	4·78	0·37	1·98
	Rajshahye	Beauleah	...	0·02	...	0·71	...	0·17	...	3	0·90	2·28	3·92	1·21	1·58
		Nattore	...	...	...	...	0·30	...	...	1	0·30	0·54	5·05	0·30	1·80
		Naogaon	...	...	...	...	0·71	...	...	1	0·71	0·75	2·75	0·75	0·92
		Lalpore ..	...	...	...	...	...	0·45	...	1	0·45	0·90	?	0·45	?
		Manda	...	...	...	...	0·20	...	1·30	2	1·50	1·50	?	1·50	?
	Maldah ..	Maldah	...	...	...	...	0·95	...	0·33	2	1·28	1·28	2·72	1·28	1·10
		Chanchal ..	...	...	...	...	0·13	...	...	1	0·13	0·13	3·63	0·13	1·92
		Gajol ..	...	...	...	...	0·25	...	0·08	2	0·33	0·33	?	0·33	?
		Sibganj ..	...	...	...	...	1·80	...	0·10	2	1·90	2·40	?	2·40	?
	Dinagepore .	Mohadebpore	...	...	...	0·30	...	0·35	...	2	0·65	0·65	3·57	0·65	0·81
		Churamon	...	...	...	...	0·21	...	...	1	0·21	0·21	2·59	0·21	0·81
		Raigunge	...	...	...	...	0·10	...	...	1	0·10	0·10	4·44	0·10	1·95
		Dinagepore	...	...	...	0·14	...	...	...	1	0·14	0·14	4·77	0·14	2·5[illegible]
		Balooghat	...	...	...	0·20	0·10	...	1·07	3	1·55	1·55	2·16	1·55	1·13
		Thakoorgaon	...	...	...	0·18	0·04	...	...	2	0·82	0·82	?	0·82	?
	Rungpore .	Bhawanigunge (*Gyabanda*)	0·35	...	0·35	1·42	...	...	...	3	2·12	2·88	6·04	2·74	2·61
		Rungpore ..	...	0·32	0·18	0·25	0·70	0·01	...	5	1·46	2·39	7·26	2·36	3·99
		Kurigram	...	...	0·60	0·64	...	0·10	...	3	1·34	4·38	9·51	3·25	4·10
		Bagdogra (*Nilphamari*)	...	...	...	0·2[illegible]	1·65	...	...	2	1·87	1·93	7·94	1·93	4·72
		Ulipore ..	...	0·84	0·19	0·52	1·02	...	...	4	2·57	4·26	?	3·43	?
	Julpigoree ..	Julpigoree	...	1·86	0·71	...	1·26	...	1·18	4	5·01	6·52	7·91	5·37	3·59
		Alipore Dooars	...	1·23	1·33	...	...	1·64	...	3	4·20	6·15	?	4·20	?
		Fallacotta .	1·05	2·60	...	...	0·14	...	2·00	4	5·79	9·97	?	6·10	?
		Debiganj	0·43	...	...	...	2·02	...	...	2	2·45	3·60	?	2·45	?
		Bhagatpore (*Nagrakatta*).	0·79	0·91	...	1·72	...	...	1·50	4	4·92	8·24	?	5·37	?
	Cooch Behar	Dinhatta	...	0·68	0·04	0·34	1·76	...	3·44	5	6·26	8·87	9·94	6·72	5·46
		Cooch Behar	...	2·90	0·55	1·80	0·30	...	0·43	5	5·98	9·65	10·60	6·21	4·75
		Meckligunge	...	...	0·11	...	1·64	...	...	2	1·75	2·47	7·91	2·11	4·11
		Mathabhanga.	2·81	0·42	...	2·57	...	...	0·98	4	6·78	10·30	7·88	7·22	4·00
	Darjeeling Hill.	Buxa	...	1·03	0·63	...	2·87	...	0·02	4	4·55	11·18	14·21	4·91	7·54
		Silliguri	...	0·27	0·13	...	1·55	...	1·40	4	3·35	3·99	5·33	3·63	2·14
		Darjeeling .	1·10	...	0·52	0·01	0·72	0·08	0·03	6	2·46	4·44	5·98	2·83	1·87
		Kalimpong	0·71	...	0·43	...	0·58	0·05	0·16	5	1·93	4·39	3·95	2·11	0·99
NORTH BEHAR	Purneah ..	Kissengunge..	...	...	0·10	0·30	2·78	...	...	3	3·18	3·18	3·93	3·18	1·68
		Arrareah	...	...	...	0·99	...	...	0·25	2	1·24	1·24	3·92	1·24	1·54
		Purneah	...	...	...	1·99	...	...	...	1	1·99	1·99	2·72	1·99	1·23
		Gondwara ..	...	...	...	...	1·50	...	...	1	1·50	1·50	?	1·50	?
		Balarampore	...	...	...	0·40	...	...	...	1	0·40	0·40	?	0·40	?
		Matiari ...	...	...	...	0·55	...	...	...	1	0·55	0·55	?	0·55	?
		Kalsiaganj ..											?		?
	North Bhagulpore.	Maddepore .	...	...	...	1·65	...	...	...	1	1·65	1·65	2·92	1·65	1·22
		Soopool ...	...	...	...	...	1·04	...	...	1	1·04	1·04	2·76	1·04	1·05
		Protabgunj ..	...	...	...	0·20	...	...	...	1	0·20	0·20	?	0·20	?
	Durbhunga	Tajpore ..	...	...	...	...	0·93	...	0·54	2	1·47	1·47	1·54	1·47	0·35
		Durbhunga .	...	...	...	...	0·14	0·07	...	2	0·21	0·21	1·89	0·21	0·64
		Madhubani ..	...	...	...	...	...	...	...	Nil	Nil	Nil	2·10	Nil	0·82
		Bahera ..	...	...	...	...	0·30	...	...	1	0·30	0·30	?	0·30	?
		Roshera ..	...	...	...	...	0·90	...	...	1	0·90	0·90	?	0·90	?
	Mozufferpore	Sitamarhi .	...	...	...	...	0·02	...	...	1	0·02	0·02	1·93	0·02	0·67
		Mozufferpore	...	...	...	...	...	0·30	...	1	0·30	0·30	1·89	0·30	0·55
		Hajipore ...	...	...	...	...	...	0·82	0·20	2	1·02	1·02	1·19	1·02	0·42
		Paru ...											?		?
		Mahua ...	...	...	...	0·12	...	0·45	...	2	0·57	0·57	?	0·57	?
		Seohar ...											?		?
		Pupri ...											?		?
	Chumparun...	Motihari ...	...	...	...	...	0·27	...	...	1	0·27	0·27	1·75	3·27	0·69
		Bettiah ...	...	...	...	0·73	...	...	0·02	2	0·75	0·75	1·91	0·75	0·60
		Bagaha ...	...	...	...	...	1·70	...	...	1	1·70	1·70	?	1·70	?
		Burhurwa ...	...	...	...	...	1·32	...	...	1	1·32	1·32	?	1·32	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 24th of May 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 18th May 1889.	Sunday, 19th May.	Monday, 20th May.	Tuesday, 21st May.	Wednesday, 22nd May.	Thursday, 23rd May.	Friday, 24th May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1889.	Average rainfall from 16th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge	......	......	......	0·77	......	......	......	1	0·77	0·77	1·90	0·77	0·33
		Sewan	......	......	......	......	0·35	......	......	1	0·35	0·35	1·07	0·35	0·37
		Chuprah	......	......	......	......	......	0·17	......	1	0·17	0·17	0·84	0·17	0·27
SOUTH BEHAR	Shahabad	Buxar	......	......	......	......	......	0·19	......	1	0·19	0·19	0·47	0·19	0·10
		Dehree	......	......	......	......	0·03	0·15	......	2	0·18	0·18	0·36	0·18	0·06
		Bhuboosh	......	......	......	......	......	0·20	......	1	0·20	0·20	0·85	0·20	0·29
		Sasseram	......	......	......	......	0·18	0·03	......	2	0·21	0·21	0·77	0·21	0·29
		Arrah	......	......	......	......	......	0·30	......	1	0·30	0·30	0·87	0·30	0·25
		Mohaniah											?		?
	Gya	Aurungabad	......	......	......	......	0·05	0·63	......	2	0·68	0·68	1·06	0·68	0·69
		Gya	......	......	......	......	......	......	......	Nil	Nil	Nil	1·15	Nil	0·90
		Nowadah	......	......	......	0·05	......	......	......	1	0·05	0·05	1·39	0·05	0·86
		Jehanabad	......	......	......	......	0·22	......	......	1	0·22	0·22	0·98	0·22	0·53
		Arwal	......	......	......	......	......	0·30	......	1	0·30	0·30	?	0·30	?
		Daudnagar	......	......	......	......	......	0·50	......	1	0·50	0·50	?	0·50	?
		Sherrghati	......	......	......	......	......	0·25	......	1	0·25	0·25	?	0·25	?
		Rajauli	......	......	......	0·10	......	......	......	1	0·10	0·10	?	0·10	?
		Pakri Barawan	......	......	......	......	1·70	......	......	1	1·70	1·70	?	1·70	?
	Patna	Patna	......	......	......	......	......	1·72	0·22	2	1·94	1·94	1·12	1·94	0·51
		Dinapore	......	......	......	......	......	0·62	......	1	0·62	0·62	0·78	0·62	0·33
		Behar	......	......	......	0·12	......	1·46	......	2	1·58	1·58	1·59	1·58	0·83
		Barrh	......	......	......	......	0·46	2·00	0·50	3	2·96	2·96	1·71	2·96	0·88
		Bickram	......	......	......	......	......	0·60	......	1	0·60	0·60	?	0·60	?
		Hilsa	......	......	......	......	......	2·25	......	1	2·25	2·25	?	2·25	?
	Monghyr	Begooserai	......	......	......	1·68	......	......	......	1	1·68	1·68	1·58	1·68	0·75
		Monghyr	......	......	......	0·70	......	0·04	......	2	0·74	0·74	1·57	0·74	0·75
		Jamui	......	......	......	......	1·82	......	......	1	1·82	1·82	1·42	1·82	0·65
		Gogri	......	......	......	......	1·35	......	......	1	1·35	1·35	?	1·35	?
		Sheikpura	......	......	......	0·60	......	......	......	1	0·60	0·60	?	0·60	?
	South Bhagulpore	Bhagulpore	......	......	......	......	1·29	......	0·10	2	1·39	1·39	1·75	1·39	0·79
		Banka	......	......	......	......	0·15	......	0·90	2	1·05	1·05	1·69	1·05	0·87
		Kolgong	......	......	......	......	3·54	......	0·10	2	3·64	3·64	?	3·64	?
	Sonthal Pergunnahs	Rajmehal	......	......	......	......	0·46	......	0·06	2	0·52	0·52	3·46	0·52	1·31
		Godda	......	......	......	......	3·10	......	1·80	2	4·90	4·90	1·88	4·90	0·71
		Pakour	......	......	......	0·09	0·53	......	1·41	3	2·03	2·25	2·27	2·03	1·03
		Nya Doomka	......	......	......	......	1·17	......	1·86	2	3·03	3·03	1·98	3·03	0·79
		Deoghur	......	......	......	......	......	......	0·11	1	0·11	0·11	2·20	0·11	1·01
		Jamtara	......	......	......	......	0·38	......	0·18	2	0·56	0·56	2·49	0·56	1·04
		Mohasama	......	......	......	......	1·05	......	......	1	1·05	1·05	?	1·05	?
		Nanshat	......	......	......	0·07	......	......	0·97	2	1·04	1·04	?	1·04	?
CHUTIA NAGPUR.	Hazaribagh	Pachamba (Giridi).	......	......	......	......	0·38	......	1·33	2	1·71	1·71	1·36	1·71	0·63
		Hazaribagh	......	......	......	0·01	0·17	0·02	0·25	4	0·45	0·45	1·32	0·45	0·53
		Semtagurah	......	......	......	0·17	0·07	......	......	2	0·24	0·24	1·46	0·24	0·25
		Mahudi Hills											1·12		0·34
		Jhoomra Hills											1·62		0·23
		Burhi	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
		Chatra	......	......	......	0·05	......	......	......	1	0·05	0·05	?	0·05	?
		Karagdeha	......	......	......	......	0·60	......	0·50	2	1·10	1·10	?	1·10	?
		Ramghar	......	......	......	......	......	......	......	Nil	Nil	Nil	?	Nil	?
	Lohardugga	Lohardugga	......	......	......	0·37	0·12	......	......	2	0·49	0·49	0·99	0·49	0·52
		Ranchi	......	......	0·02	0·11	0·13	......	0·03	4	0·29	0·29	1·79	0·29	0·61
		Palamow	......	......	......	......	0·01	0·25	......	2	0·26	0·26	0·82	0·26	0·48
		Silli	......	......	......	......	......	0·80	......	1	0·80	1·10	?	1·10	?
		Balumat											?		?
		Hossennabad	......	......	......	......	......	0·31	......	1	0·31	0·31	?	0·31	?
		Garwah											?		?
	Singbhoom	Chyebassa	......	......	......	0·43	0·29	......	......	2	0·72	1·96	2·71	1·96	1·18
		Chakradharpore.	0·52	......	......	......	0·27	0·30	1·02	4	2·11	2·11	?	2·11	?
		Ghatsilla	......	......	......	......	0·85	......	......	1	0·85	0·95	?	0·95	?
		Baharagura	......	0·07	0·83	0·65	......	......	......	3	1·55	1·97	?	1·97	?
	Manbhoom	Purulia	......	......	0·02	0·02	0·50	......	......	3	0·54	0·75	2·71	0·75	1·21
		Gobindpore	......	......	......	......	0·08	......	......	1	0·08	0·08	1·29	0·08	0·57
		Raghunathpore.	......	......	......	......	0·63	......	0·29	2	0·92	0·92	?	0·92	?
		Barrabhoom	......	......	......	......	1·80	......	0·53	2	2·33	2·33	?	2·33	?
		Jhalda	......	......	0·20	......	......	0·46	......	2	0·66	0·66	?	0·66	?
		Chas	......	......	......	0·29	......	......	......	1	0·29	0·29	?	0·29	?

Explanation.—...... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 28th May* 1889.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE WEEK ENDING 24TH OF MAY 1889.

At the commencement of the week weather was everywhere fine, and pressure and temperature were high, but the rise of pressure, which had been going on during the latter half of the previous week, ceased and a rather rapid fall set in everywhere. It lasted the first two days, causing an almost general defect. Temperature continued high, especially in South Behar, humidity increased slightly, and showers were reported from Orissa and North Bengal. After that a general disturbance began, with irregular changes of pressure, sometimes large, and a fall of temperature in all districts except Behar and Chutia Nagpur, where a large excess existed a day or two longer than in the other districts. On Monday, the 20th, humidity was high everywhere, and rain was general in Assam, and showers fell in many parts of East, North, and South-West Bengal. Behar and Chutia Nagpur alone received no rain. Wind directions became more easterly, and continued so for several days, being generally north-easterly in North Bengal, and easterly or south-easterly elsewhere. On Tuesday pressure changes were very irregular, a rapid fall of temperature occurred in Behar, and weather became more generally disturbed, and rain fell at almost all stations, though only in a few instances did it amount to more than an inch. During the following three days similar conditions obtained, though weather was becoming less disturbed towards the end of the week, when wind directions became more normal, cloud proportion lessened, and showers were less numerous. Rapid increases and decreases of pressure, however, continued, and temperature from being largely in defect, especially in Behar, began to rise at the end of the week.

Pressure.—Pressure changes have been large throughout the week, and during the day or two when conditions were most disturbed, considerable irregularity existed. At the beginning there was an excess averaging for the whole province about a tenth of an inch, but in consequence of the rapid fall of the first two days, the only stations that reported excess pressure were a few in East and North Bengal and Assam. The variations from the normal then showed great irregularity. A rise was general on Monday, the Orissa stations only reporting slight falls. On the following day the changes were not large, but were decidedly irregular, and the difference of pressure over the province considerably increased. The rise that occurred on Wednesday in the western districts was the largest change of the week, amounting to ·15 inch in Chutia Nagpur, Behar, and parts of South-West Bengal. Pressure became again everywhere in excess, but in consequence of the large fall on the following day, a defect arose in East and North Bengal and Assam. The largest fall was ·13 inch in North Bengal. The changes on Friday were unimportant and somewhat irregular. The average pressure for the week does not differ much from the normal, being about ·02 inch in excess, and at a fair number of stations pressure is almost normal. The largest difference is in North Bengal and Assam.

Temperature.—During the first two days of the week temperature was above the normal everywhere except Assam, the excess in Behar being about 7°. When storms became general, large falls of temperature set in, and excepting Behar and Chutia Nagpur, defect existed everywhere on Monday. On Tuesday there was a rapid fall in Behar, which extended to Chutia Nagpur the next day. A large defect then existed in Behar, and kept increasing till the end of the week, when it amounted to about 12°. The defect for the other districts during the latter half of the week was three or four degrees. Temperature first fell in Assam, and on Monday was about 8° in defect; after that a rise set in, and by the end of the week there was a slight excess at Sibsagar and Silchar. The mean for the week is in defect in all districts except Chutia Nagpur. The defect is largest in Assam, amounting to nearly 3°. In Orissa, South-West and North Bengal, and South Behar it is over 1°. In East Bengal, North Behar, and Chutia Nagpur average temperature is very nearly normal. In the early part of the week maximum temperatures of over 110° were reported by several stations. The highest for the week was 113° in South Behar, and the lowest 64·8° in Assam and 65·4° in North Bengal. In Assam the mean temperature has been nearly three degrees below the normal.

Rainfall.—Showers have been fairly common every day of the week, and were general everywhere on Tuesday and Wednesday. Rain fell on Saturday only in Orissa and Assam, then extended to East and North Bengal. No rain fell in Behar till Wednesday, when there were heavy showers in North Behar; but parts of South Behar did not receive more than two or three hundredths of an inch. The heaviest rain fell in South Behar on Thursday, Patna reporting 1·7 inches. More than the normal amount has fallen in all districts except North Bengal, but there the defect is very slight. North, East, and South West Bengal received an average of more than an inch and a half, South Behar a little over one inch Orissa ·85 inch, and Chutia Nagpur ·53 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 24th May 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	105 9	71·8	93·5	73·3	85·9	−1·1	1·03	0·66	+0·37	2·0	1·2	+0·8	1·63	2·63	1·37	0·90
South-West Bengal ...	112 1	69·2	98 4	77·0	87·7	−1·1	1·67	0·77	+0·90	2·3	1·5	+0·8	2·57	3·77	2·33	1 10
East Bengal	99 0	67·6	91·8	75 0	83·4	—0·6	1·55	1·48	+0·07	2·5	2·3	+0·2	4·78	6·97	2·45	2·08
North Bengal	107 3	65·4	93·6	72·9	83·3	−1·4	1·64	1·80	—0·16	2·4	2·1	+0·3	2·99	5·70	2·18	2·52
North Behar	110·7	68·8	98·4	75·8	87·1	—0·1	0·89	0·47	+0·42	1·3	0·7	+0·6	0·89	2·13	0·89	0·77
South Behar	113·0	67·5	101·7	77·4	89·5	−1·8	1·12	0 48	+0·64	1·6	0·7	+0·9	1·13	1·47	1·12	0·67
Chutia Nagpur	107·0*	68·2*	100·1*	75·3*	87 7*	+0·8*	0·53	0·44	+0·09	2·2	1·0	+1·2	0·66	1·57	0·66	0·60
Assam	93 5	64·8	85·6	71·5	78·6	−2·8										

* Chyebassa not included.

Meteorological Office, Bengal ;
The 28th May 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 19th to 25th May 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May ...	19th ..	29·671	89·1	97·0	15·8	81·2	92 6	84·0	1·051	80·8	69	Nil
,, .	20th ...	·694	83·1	98·0	23·5	71·3	89·6	82·5	1·016	79·7	73	0·72
,, ...	21st ..	·711	86·4	92·0	11·2	80 8	92·0	83·5	1·034	80·8	69	3·13
,, ...	22nd ..	·779	80·2	90 0	19·6	70·4	78·6	74·5	·801	72·5	82	0·17
,, ...	23rd ...	·699	83 4	91·0	15·2	75 8	89·6	81 5	·966	78·2	70	Nil
,, ...	24th ...	·707	83·5	93·0	19 0	74·0	85·3	79·5	·931	77·1	77	0 58
,, ...	25th ..	·757	86 2	95·0	17 6	77·4	89·6	82·5	1 016	79·7	73	Nil

The mean 10 A.M. pressure of the seven days	...	...	... Inches. 29·717
The mean temperature of the seven days	...	...	... 84·6°
The extreme variation of temperature	...	...	... 27·6°
The maximum temperature	...	...	... 98·0
The mean 10 A.M. relative humidity of the seven days		...	... 73 %
The total fall of rain from 19th to 25th May 1889		...	... Inches. 4·55

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, India ;
The 27th May 1889.

A. Pedler,
For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 19th to 25th May 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
May	19th	153·2	10·5	29·625	86·9	95·4	14·3	81·1	79·6	0·918	76·6	72	SW, SSW and variable.	323	0·50	Partially cloudy, o, g, p, K.
„	20th	148·9	7·1	·635	85·8	92·9	22·2	70·7	78·8	·896	75·9	73	SSW, SW and S ...	197	Nil	Partially cloudy, o.
„	21st	160·1	6·4	·648	85·7	96·1	15·9	80·2	79·7	·935	77·2	76	SSW and variable	185	1·46	Chiefly cloudy, o g, d t, p, K, ↗.
„	22nd	146·8	4·6	·724	80·0	87·4	17·0	70·4	74·7	·794	72·8	78	Calm and variable...	62	0·13	Chiefly cloudy, o, g, p.
„	23rd	154·3	5·1	·639	82·4	89·0	13·8	75·2	77·6	·885	75·5	81	SSE and calm ...	49	0·48	Chiefly cloudy, o, g, p, t, d, <.
„	24th	150·7	8·5	·626	82·1	91·6	18·5	73·1	77·4	·883	75·4	81	Calm and variable...	29	0·02	Partially cloudy, d.
„	25th	148·6	6·6	·689	82·3	93·4	71·1	76·3	78·0	·903	76·1	83	Calm and variable...	39	0·13	Chiefly cloudy, o, g, d, t, p

	Inches.
The mean pressure of the seven days	29·655
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·637
	Hours.
The total number of hours of bright sunshine	48·8
The maximum possible number of hours of sunshine	92·9
	°
The mean temperature of the seven days	83·6
The average temperature of the corresponding period for 24 years, S.-G.'s Office	86 9
The extreme variation of temperature	25·7
The maximum temperature	96·1
	Miles.
The highest velocity of the wind in one hour	27
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	15
	%
The mean relative humidity	78
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	74
	Inches.
The total fall of rain from 19th to 25th May 1889	2 72
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·00
The total fall from 1st January to 25th May 1889	7 66
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	8·31

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, to thunder, p passing temporary showers, K thunderstorm, ↗ strong wind, < lightning.

A. PEDLER,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 27th May 1889.

MEMORANDUM.

During the week ending 11th May 1889, births and deaths were registered in the principal Municipalities in Bengal at the rates respectively of 18·9 and 21·6 per 1,000 of population, against 18·2 and 20·1 per 1,000 during the preceding week ending 4th May, indicating an improvement in the registration of deaths.

2. The following Municipalities returned the highest proportions of births and deaths:—

Births.

	Ratio per *mille.*
Rampore Beauleah	44·7
Darjiling	39·1
Durbhanga	36·2
Monghyr	32·5
Mozufferpore	31·6
Comillah	30·8

Deaths.

	Ratio per *mille.*
Comillah	46·2
Gya	44·4
Ranaghat	41·9
Naraingunj	41·4
Serampore	41·2
Rampore Beauleah	39·4
Utterpara	37·7
Kishnaghur	36·0
Durbhanga	31·5
Puri	31·5
Purneah	31·2

3. In comparison with the results of the preceding week, there was an increase in the death-rate from cholera, no variation in fatality from small-pox, and only small differences in the casualty-rates from the other diseases:—

	Ratio per *mille* during the weeks ending— 11th May 1889.	4th May 1889.
Cholera	4·2	3·1
Small-pox	·6	·6
Fever	8·8	8·0
Bowel-complaints	1·8	2·2
Injury	·4	·5
Other causes	5·8	5·7

4. The diseases indicated in the foregoing table proved most fatal to life in the following Municipalities, excepting bowel-complaints and injury, the mortality from which was nowhere above normal:—

Cholera.

	Ratio per *mille.*
Ranaghat ...	17·9
Naraingunj ...	16·6
Serampore ...	15·7
Comillah ..	15·4
Kishnaghur	15·1
Purneah ...	10·4
Chittagong ...	9·4
Rampore Beauleah	7·9
Gya ...	7·6
Durbhanga ...	6·3
Howrah ...	5·7
Patna ...	3·2

Small-pox.

	Ratio per *mille.*
Chupra ..	2·9
Patna ..	2·3

Fever.

	Ratio per *mille.*
Rampore Beauleah	26·3
Gya ...	22·5

Other causes.

	Ratio per *mille.*
Naraingunj ...	20·7
Comillah ...	19·3
Serampore ...	16·7
Gya ...	13·7
Bhagulpore ...	13·6
Puri ...	10·5

5. Under the heads of *Sex*, *Class* and *Age*, the mortality of the week was as follows:—

According to Sex.

	Ratio per *mille.*
Males	21·9
Females	21·3
Ratio of male deaths to every 100 female deaths	110

According to Class.

	Ratio per *mille.*
Christians	39·4
Hindus	21·1
Mahomedans ...	22·7

According to Age.

	Ratio per *mille.*
Under 1 year ...	196·3
1 and under 5 years ...	32·8
5 „ 10 „ ...	10·3
10 „ 15 „ ...	6·4
15 „ 20 „ ...	16·0
20 „ 30 „ ...	11·2
30 „ 40 „ ...	15·0
40 „ 50 „ ...	16·0
50 „ 60 „ ...	20·6
60 years and upwards ...	50·2

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 27th May 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 11th May 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.								Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total	Males.	Females.	Total.	Ratio of male births to every 100 female births	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan ...	18,063	16,017	34,080	8	6	14	12·2	9·2	21·4	133	.		10	2	.	3	15	...	.	15·3	3·0	...	4·6	22·9	13·7	9	6	25·9	19·5	150
Midnapore...	Midnapore ...	16,927	16,633	33,560	6	5	11	9·3	7·7	17·0	120	2		4	1		5	10	3·1		6·2	1·5		4·6	15·5	20·1	8	2	24·6	6·3	400
Hughli ...	Hughli and Chinsurah ...	19,179	19,539	38,718	5	6	11	6·7	8·1	14·8	83	2		2	2		5	11	2·7		2·7	2·7	...	6·7	14·8	20·1	6	5	16·3	13·3	120
Serampore ...	Serampore ...	13,559	12,937	26,496	8	3	11	15·7	5·9	21·6	266	8		4	1		8	21	15·7		7·9	1·9	.	15·7	41·2	45·1	13	8	49·9	32·2	162
	Utterpara ...	3,046	2,464	5,510	2	1	3	18·9	9·4	28·3	200			2	.		2	4			18·9		..	18·9	37·7	18·9	4		68·3	..	No female death.
Howrah ...	Howrah ...	53,153	37,660	90,813	23	13	36	13·2	7·4	20·6	176	10	.	5	2		12	29	5·7	..	2·9	1·1	...	6·9	16·6	13·7	21	8	20·5	11·0	262
	Bali ...	7,836	6,979	14,815	2	...	2	7·0		7·0	No female birth.	1		.	.	.		1	3·5	..		..	...		3·5	17·5	1	...	6·6	...	No female death.
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	6	2	8	11·3	3·8	15·1	300	8	..	7	...	.	4	19	15·1	..	13·2	...		7·6	36·0	9·4	6	13	23·5	47·6	46
	Ranaghat ...	4,028	4,655	8,683	..	1	1	...	6·0	6·0	No male birth.	3	..	3		.	1	7	17·9		17·9	..	...	6·0	41·9	6·0	4	3	51·6	33·5	133
	Santipore ...	13,708	15,979	29,687	3	2	5	5·3	3·5	8·8	150	1	.	7	2	.	1	11	1·7	..	12·3	3·5		1·7	19·3	5·3	10	1	37·9	3·3	1,000
Jessore ...	Jessore ...	4,830	3,665	8,495	1	1	2	6·1	6·1	12·2	100	...	..	1	..	...	..	1	.	..	6·1	..		...	6·1	...	...	1	...	14·2	No male death.
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	9	8	17	23·6	21·0	44·7	112	3	...	10	1	1		15	7·9	...	26·3	2·6	2·6	.	39·4	49·9	5	10	24·2	57·6	50
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	5	1	6	32·6	6·5	39·1	500	.		1		1	...	2	...	...	6·5	...	6·5	...	13·0	26·1	1	1	10·3	17·6	100
Dacca ...	Dacca ...	42,782	37,379	80,161	19	11	30	12·3	7·1	19·5	172	2	..	6	2		8	18	1·3	..	3·9	1·3	...	5·2	11·7	8·4	8	10	9·7	13·9	80
	Narainganj ...	7,605	4,956	12,561	2	3	5	8·3	12·4	20·7	66	4	...	...	1	...	5	10	16·6	...	...	4·1	...	20·7	41·4	24·8	6	4	41·0	42·0	150
Chittagong ..	Chittagong ...	13,340	8,790	22,130	...	4	4	...	9·4	9·4	No male birth.	4	..	3	1	..	..	8	9·4	...	7·0	2·3	...	...	18·8	18·8	3	5	11·7	29·6	60
Tipperah ...	Comillah ...	8,153	5,353	13,506	5	3	8	19·3	11·5	30·8	166	4	..	1	2	..	5	12	15·4	...	3·8	7·7	...	19·3	46·2	26·9	7	5	44·6	48·6	140
Patna ...	Patna City ...	78,762	81,475	160,237	29	8	37	9·4	2·6	12·0	362	10	7	21	2	4	9	53	3·2	2·3	6·8	·6	1·3	2·9	17·2	17·2	25	28	16·5	17·9	89
Gya ...	Gya ...	38,290	37,831	76,121	10	10	20	6·8	6·8	13·7	100	11	..	33	...	1	20	65	7·5	...	22·5	.	·7	13·7	44·4	36·2	34	31	46·2	42·6	109
Shahabad ...	Arrah ...	20,960	22,505	43,465	2	5	7	2·4	6·0	8·4	40			1	...		.	1		.	1·2		..	...	1·2	13·2	1	...	2·5	.	No female death.
Mozufferpore ..	Mozufferpore ...	23,084	19,658	42,742	14	12	26	17·0	14·6	31·6	116	.	.	12	3	1	1	17			14·6	3·6	1·2	1·2	20·7	21·9	10	7	22·5	18·5	142
Durbhanga...	Durbhanga ...	33,774	32,322	66,096	29	17	46	22·8	13·4	36·2	170	8	2	19	8	.	3	40	6·3	1·6	14·9	6·3	.	2·4	31·5	26·7	17	23	26·2	37·0	73
Sarun ...	Chupra ...	26,044	27,205	53,249	2	7	9	2·0	6·8	8·8	28	.	3	2	1	..	6	12	.	2·9	2·0	1·0	...	5·8	11·7	16·6	8	4	16·0	7·6	200
Bhagulpore...	Bhagulpore ...	29,640	27,813	57,453	10	15	25	9·0	13·6	22·6	66	1		9	.	.	15	25	·9	...	8·1	.	...	13·6	22·6	21·7	7	18	12·3	33·7	38
Monghyr ...	Monghyr ...	28,154	29,366	57,520	21	15	36	19·0	13·5	32·5	140	...	.	8	3	.	3	14		..	7·2	2·7	.	2·7	12·7	16·3	7	7	12·9	12·4	100
Purneah ...	Purneah ...	8,463	6,553	15,016	1	1	2	3·4	3·4	6·9	100	3		5		..	1	9	10·4	..	17·3	.	...	3·4	31·2	41·6	2	7	12·3	55·5	28
Puri ...	Puri ...	13,247	11,537	24,784	4	3	7	8·4	6·3	14·7	133	1		6	3	...	5	15	2·1	..	12·6	6·3		10·5	31·5	35·7	11	4	43·2	18·0	275
	Total ...	555,685	515,457	1,071,142	226	163	389	11·0	7·9	18·9	138	86	12	182	37	8	120	445	4·2	·6	9·8	1·8	·4	5·8	21·6	20·1	234	211	21·9	21·3	110

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

MORTALITY ACCORDING TO— Class. (13, 14)

DISTRICTS	NAMES OF MUNICIPALITIES.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per Annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	12	3	...	...	...	26·3	15·2	.	..
Midnapore	Midnapore	...	7	3	...	...	..	14·0	21·6	...	.
Hughli	Hughli and Chinsurah ...	...	8	3	...		...	13·1	22·9	...	..
Serampore	Serampore		18	3	...	...	...	37·1	166·3	..	..
	Utterpara	...	4	...	...	...	...	39·1		..	.
Howrah	Howrah	1	19	9	.	...	27·5	14·5	22·8	...	...
	Bali	...	1	...	..	...	.	3·9	.	...	...
Nuddea	Kishnaghur	4	12	3	...	...	366·8	33·5	18·8	...	...
	Ranaghat	...	6	1	...	..	...	42·6	38·1	...	..
	Santipore	...	7	4	...	...	...	17·6	23·3	...	...
Jessore	Jessore	...	...	1	...	...	...	...	13·6	...	...
Rajshahye	Rampore Beauleah	...	7	8	...	...	...	36·7	42·4	...	...
Darjiling	Darjiling	...	2	...	...	..	...	22·6	..	...	...
Dacca	Dacca	...	10	8	...	...	...	12·9	10·6		..
	Narainganj	..	4	6	...	...	...	32·9	50·6	.	..
Chittagong	Chittagong	...	2	6	...	...	..	17·9	20·4	..	..
Tipperah	Comillah		5	7	...	...	...	43·7	49·3	...	...
Patna	Patna City	1	39	13	...	...	146·5	17·0	16·5	...	..
Gya	Gya		49	16	...	..	...	42·5	51·7	..	.
Shahabad	Arrah	...	1		...	...	...	1·7		...	...
Mozufferpore	Mozufferpore	...	9	8	...	...	...	15·6	33·3	..	..
Durbhanga	Durbhanga	..	34	6	...	...	..	36·5	17·8	.	...
Sarun	Chupra	...	4	8	...	...	..	5·1	34·6	...	...
Bhagulpore	Bhagulpore	...	16	9	...	...	...	20·9	27·2	...	...
Monghyr	Monghyr	...	13	1	...	...	...	15·1	4·1	...	...
Purneah	Purneah	...	6	3	...	...	...	34·0	27·6	...	
Puri	Puri	...	15	...	...	...	...	31·8	..	...	..
	TOTAL ...	6	310	129	...	...	39·4	21·1	22·7	.	...

MORTALITY ACCORDING TO— Age. Deaths. (15)

NAMES OF MUNICIPALITIES.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	1	...	...	2	1	3	4	3	...	1
Midnapore	3	1	...	...		2	2	...	1	1
Hughli and Chinsurah	5	1	...	...	...	...	4	...	...	1
Serampore	2	2	1	1		3	2	2	1	7
Utterpara	2	...	...	...	...	1	...	.	...	1
Howrah	8	4	1	...	4	4	5	1	1	1
Bali	.	1	...	...	...	...	...	.	...	...
Kishnaghur	3	3	2	1	1	...	1	2	2	4
Ranaghat	1	1	...	...	1	...	2	...	1	1
Santipore	2	2	...	...	...	..	2	3	...	2
Jessore	...	...	..	...	..	..	...	..	1	...
Rampore Beauleah	2	2	1	..	...	2	1	2	1	4
Darjiling	..	...	...	...	...	1	1	...	...	...
Dacca	6	3	1	...	4	.	1	2	...	1
Narainganj	3		...	1	...	1	2	1	1	1
Chittagong	1	.	...	1	.	2	2	2		..
Comillah	4	1	..	...	2	.	...	2	1	2
Patna City	11	6	2	1	6	8	3	5	3	8
Gya	12	14	2	1	1	8	4	6	7	10
Arrah	...	...	...	...	.	1	..	...	...	...
Mozufferpore	6	2	2	1	3	..	...	...	1	2
Durbhanga	9	9	4	1	.	1	6	3	3	4
Chupra	4	2	...	...		1	..	2	1	2
Bhagulpore	8	3	1	1	1	2	2	1	1	5
Monghyr	2	...	1	...	...	4	2	1	3	1
Purneah	1	1	3	1	1	1	..	..	1	..
Puri	...	1	1	..		1	5	1	1	5
TOTAL	96	59	22	12	25	46	51	39	31	64

MORTALITY ACCORDING TO— Age. Ratio per 1,000 of Population per Annum. (16)

NAMES OF MUNICIPALITIES.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	78·3	......	......	41·3	16·6	19·7	30·2	35·3	35·1	.. .
Midnapore	210·0	22·1	......	....	......	14·2	18·8	... ..	25·2	28·4
Hughli and Chinsurah	275·7	19·5	......	.. ..	......	......	29·7	... .	....	20·7
Serampore	146·5	57·6	20·7	23·4	......	29·0	20·9	30·8	27·2	261·7
Utterpara	646·0	.. .	. . .	......	...	45·2	. ..	......	... ..	250·0
Howrah	201·6	37·5	8·3	......	28·4	9·2	13·5	4·4	9·5	13·9
Bali	.... .	54·1	......	... ..	.. ...	......	. . .	......	......	......
Kishnaghur	314·5	63·2	30·3	13·5	25·3	.. ..	12·1	31·9	49·4	120·4
Ranaghat	251·2	65·4	......	......	83·5	.. .	83·4	... ..	71·8	91·4
Santipore	123·1	35·9	......	..	......	... .	24·0	44·4	. ..	53·0
Jessore	.. .	... ..	. ..	......	......	..	......	... ..	92·4	......
Rampore Beauleah	256·2	73·3	25·0	. .	... ..	25·0	14·4	42·4	41·9	216·0
Darjiling	.. .	... .	......	......	......	26·0	36·3	... ..	......	......
Dacca	164·4	21·2	5·2	......	26·5	...	4·5	12·4	......	9·3
Narainganj	559·1	......	. ....	45·1	......	19·5	48·6	37·3	66·5	79·8
Chittagong	92·4	......	. ...	20·2	.. ...	22·5	31·2	46·1	......	.. ..
Comillah	700·3	39·8	.. ..	......	82·7	.. .	......	79·1	64·9	153·4
Patna City	132·7	21·4	6·2	3·6	27·9	14·4	6·7	13·8	11·0	30·1
Gya	348·6	114·6	14·9	7·7	9·9	28·3	16·3	31·9	55·4	101·0
Arrah	......	......	......	... .	... .	6·6	......	......	.. ..	......
Mozufferpore	326·7	25·7	23·1	13·1	51·5	.....	....	.	16·0	42·7
Durbhanga	300·6	61·5	26·6	9·4	..	3·9	28·0	21·0	30·6	65·1
Chupra	144·0	19·6	....	....	.. .	5·5	......	16·6	12·3	29·9
Bhagulpore	348·4	28·8	8·9	8·3	12·4	9·5	11·2	8·3	12·2	72·2
Monghyr	70·0	... ..	7·4	......	. . .	20·1	11·7	8·2	39·2	14·5
Purneah	183·7	43·0	98·7	43·6	52·3	15·8	......	......	55·5	......
Puri	. ..	28·9	23·2	......	......	9·8	64·2	15·6	23·3	144·0
TOTAL	195·3	32·8	10·3	6·4	16·0	11·2	15·0	16·0	20·6	50·2

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 27th May 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 25th May 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 25th May 1889.			Week ending Saturday, the 26th May 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	211	54,500	760	320	75,500	1,381
Jute	9	4,325	51	10	5,250	67
Firewood	114	65,100	961	139	61,575	889
Other articles	656	2,25,080	3,326	678	1,69,450	2,666
Total ...	990	3,49,005	5,098	1,147	3,11,775	5,003

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 18th May 1889, on 1,513½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	277,287	2,67,537 0 0	31,70,360 20	7,42,237 11 0	20,885 14 0	10,30,660 9 0	63,265½	107,877	171,142½
Or per mile of railway	......	176 12 3	...	490 6 7	13 12 10	680 15 8	......	......	...
For previous 19 weeks of half-year	5,081,178	57,36,740 1 0	5,29,10,194 20	1,18,02,578 10 4	3,07,748 9 8	1,78,47,067 5 0	1,245,899¾	1,851,870½	3,097,770
Total for 20 weeks ...	5,358,465	60,04,277 1 0	5,60,80,555 0	1,25,44,816 5 4	3,28,634 7 8	1,88,77,727 14 0	1,309,165¼	1,959,747¾	3,268,912¾
COMPARISON.									
Total for corresponding week of previous year	275,740	2,63,557 15 3	31,85,392 20	7,20,364 15 2	18,151 0 1	10,02,073 14 6	63,825	112,160	175,985
Per mile of railway corresponding week of previous year ..	.. ..	174 1 9	......	475 14 1	11 15 10	661 15 8	... ..	......	......
Total to corresponding date of previous year	5,414,302½	60,94,187 6 0	5,73,89,968 20	1,33,91,909 1 8	4,34,133 6 8	1,99,20,229 14 4	1,319,524	2,126,873	3,446,697

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,513½	10,02,074	662	1,513½	10,30,661	681	1,513½	69,46,573	656	1,513½	67,58,508	638	......	1,88,065

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 18th May 1889, on 57⅜ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,404	5,923 6 0	45,006 10	2,888 8 0	58 4 0	8,869 2 0	1,406	988	2,394
Or per mile of railway	252	103 8 7	787 0	50 7 11	1 0 4	155 0 10	......	......	...
For previous 19 weeks of half-year	273,995	1,49,111 15 9	7,63,371 20	46,554 10 0	1,005 13 10	1,96,672 7 7	35,522½	11,869	47,391½
Total for 20 weeks ...	288,399	1,55,034 5 9	8,08,377 30	49,443 2 0	1,064 1 10	2,05,541 9 7	36,928½	12,857	49,785½
COMPARISON.									
Total for corresponding week of previous year	12,178½	5,256 1 9	53,374 10	3,055 15 0	26 4 0	8,338 4 9	1,609	785	2,394
Per mile of railway corresponding week of previous year ...	218	91 14 3	933 10	53 6 10	0 7 4	145 12 5	......	......	.....
Total to corresponding date of previous year	292,280	1,51,129 7 11	8,23,103 20	55,093 15 0	839 7 6	2,07,062 14 5	35,297	13,734	49,031

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57⅜	8,338	146	57⅜	8,869	155	57⅜	68,027	170	57⅜	68,855	172	828	.....

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 18th May 1889, on 12 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,030	509 0 0	20,801 30	565 0 0	9 6 0	1,083 6 0	297½	196	493½
Or per mile of railway	......	42 6 8	......	47 1 4	0 12 0	90 4 0	......	......	......
For previous 19 weeks of half-year	53,923	9,166 0 9	3,46,479 20	8,177 13 0	180 12 8	17,524 10 5	6,553½	2,682½	9,235½
Total for 20 weeks ...	56,953	9,675 0 9	3,67,281 10	8,742 13 0	190 2 8	18,608 0 5	6,850½	2,878½	9,729
Comparison.									
Total for corresponding week of previous year	3,853	645 7 9	27,030 30	1,030 7 0	12 11 3	1,688 10 0	184	309	493
Per mile of railway corresponding week of previous year .	......	53 12 8	......	85 13 11	1 0 11	140 11 6	......	......	......
Total to corresponding date of previous year	63,531	10,764 8 3	4,51,305 20	11,210 15 0	209 13 3	22,185 4 6	6,105	3,755	9,860

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,689	141	12	1,083	90	12	9,712	116	12	7,117	85	......	2,595

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th May 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,063	5,190 4 0	7,857 30	280 8 0	9 0 0	5,479 12 0	916	52	968
Or per mile of railway	......	233 4 4	......	12 9 8	0 6 6	246 4 6	.....	......	......
For previous 19 weeks of half-year	438,263	1,15,034 2 0	1,85,936 20	6,707 0 0	118 1 10	1,21,859 3 10	17,519	1,168	18,687
Total for 20 weeks ...	458,326	1,20,224 6 0	1,93,794 10	6,987 8 0	127 1 10	1,27,338 15 10	18,435	1,220	19,655
Comparison.									
Total for corresponding week of previous year	19,622½	4,901 7 9	9,529 10	354 5 0	6 4 0	5,262 0 9	898	70	968
Per mile of railway corresponding week of previous year ...	......	220 4 8	......	15 14 9	0 4 6	236 7 11	......	......	......
Total to corresponding date of previous year	455,097	1,19,913 11 4	1,67,169 0	6,171 1 0	153 3 0	1,26,237 15 4	18,275	1,525	19,800

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs.	Rs.	Rs.
22½	5,963	256	22½	5,480	246	22½	50,384	324	22½	46,047	296	.... ..	4,337

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 11th May 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	* Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	137,040	59,480 0 0	5,34,850 0	85,300 0 0	14,360 0 0	1,59,140 0 0	21,270	22,197	43,467
Or per mile of railway ..	204	88 0 0	795 0	127 0 0	†4 0 0	219 0 0	......	......	......
For previous 18 weeks of half-year	a2,675,004	13,62,612 0 0	a91,33,206 0	15,12,118 0 0	3,15,439 0 0	*31,90,169 0 0	384,022	434,627	*818,649
Total for 19 weeks ..	2,812,044	14,22,092 0 0	96,68,056 0	15,97,418 0 0	3,29,799 0 0	33,49,309 0 0	405,292	456,824	862,116
COMPARISON.									
Total for corresponding week of previous year	131,227	56,902 0 0	4,02,824 0	82,684 0 0	13,640 0 0	1,53,226 0 0	21,268	23,381	44,649
Per mile of railway corresponding period of previous year ..	195	85 0 0	688 0	123 0 0	†4 0 0	212 0 0	......	......	......
Total to corresponding date of previous year	2,692,182	13,70,412 0 0	1,03,43,904 0	14,62,181 0 0	2,95,564 0 0	31,28,157 0 0	416,414	461,158	877,572

* Audited up to week ending 6th April 1889.
† Excluding steam-boat traffic.
a Audited up to 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,53,226	228	673	1,59,140	236	673	8,41,335	208	673	9,43,443	233	1,02,108	...

* Audited up to week ending 6th April 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 11th May 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	28,430	10,490 0 0	59,110 0	4,300 0 0	70 0 0	14,860 0 0	3,597	2,075	5,672
Or per mile of railway ..	227	84 0 0	473 0	34 0 0	1 0 0	119 0 0	......	......	......
For previous 18 weeks of half-year	†512,896	1,81,385 0 0	†10,09,871 0	58,152 0 0	4,602 0 0	*2,44,139 0 0	63,777	36,802	*100,579
Total for 19 weeks ...	541,326	1,91,875 0 0	10,68,981 0	62,452 0 0	4,672 0 0	2,58,999 0 0	67,374	38,877	106,251
COMPARISON.									
Total for corresponding week of previous year	27,238	8,326 0 0	44,514 0	3,213 0 0	63 0 0	11,602 0 0	3,419	2,136	5,555
Per mile of railway corresponding period of previous year ..	218	67 0 0	356 0	26 0 0	.	93 0 0	......	......	......
Total to corresponding date of previous year	506,464	1,08,709 0 0	9,73,864 0	61,600 0 0	4,006 0 0	2,34,315 0 0	63,904	37,954	101,858

* Audited up to week ending 6th April 1889.
† Ditto ditto 9th March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 12th May 1888.			Receipts for week ending 11th May 1889.			Total receipts from 1st April 1888 to 12th May 1888.			Total receipts from 1st April 1889 to 11th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,602	93	125	14,860	119	125	67,509	90	125	*81,261	108	13,692	......

* Audited up to 6th April 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 11th May 1889, on 86 miles open.

	Coaching Traffic. Number of passengers.	Coaching Traffic. Coaching receipts. Rs. A. P.	Merchandise and Mineral Traffic. Weight carried. Mds. s.	Merchandise and Mineral Traffic. Receipts. Rs. A. P.	Other earnings (estimated). Rs. A. P.	Total earnings. Rs. A. P.	Traffic Train-miles run. Coaching.	Traffic Train-miles run. Merchandise.	Traffic Train-miles run. Total.
Total traffic for the week	13,190	4,260 0 0	18,930 0	830 0 0	250 0 0	5,340 0 0	2,502	602	3,104
Or per mile of railway	153	49 0 0	220 0	10 0 0	3 0 0	62 0 0	......	....	. .
For previous 18 weeks of half-year	†273,350	86,526 0 0	†2,17,410 0	17,807 0 0	2,998 0 0	*1,07,331 0 0	43,354	12,605	*56,019
Total for 19 weeks ..	286,540	90,786 0 0	2,36,340 0	18,637 0 0	3,248 0 0	1,12,671 0 0	45,856	13,207	59,123
COMPARISON									
Total for corresponding week of previous year . . .	12,902	3,723 0 0	4,393 0	740 0 0	115 0 0	4,578 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year	150	43 0 0	51 0	9 0 0	1 0 0	53 0 0	.. ...	... ..	. . ..
Total to corresponding date of previous year	268,642	81,501 0 0	2,31,890 0	16,539 0 0	3,501 0 0	1,01,541 0 0	47,317	11,699	59,016

* Audited up to week ending 6th April 1889.
† Ditto ditto 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 12th May 1888. Mean mileage worked.	Receipts for week ending 12th May 1888. Receipts. Rs.	Receipts for week ending 12th May 1888. Per mile worked. Rs.	Receipts for week ending 11th May 1889. Mean mileage worked.	Receipts for week ending 11th May 1889. Receipts. Rs.	Receipts for week ending 11th May 1889. Per mile worked. Rs.	Total receipts from 1st April 1888 to 12th May 1888. Mean mileage worked.	Total receipts from 1st April 1888 to 12th May 1888. Total receipts. Rs.	Total receipts from 1st April 1888 to 12th May 1888. Per mile worked per week. Rs.	Total receipts from 1st April 1889 to 11th May 1889. Mean mileage worked	Total receipts from 1st April 1889 to 11th May 1889. Total receipts. Rs.	Total receipts from 1st April 1889 to 11th May 1889. Per mile worked per week. Rs.	Total increase in 1888-89. Rs.	Total decrease in 1888-89. Rs.
86	4,578	53	86	5,340	62	86	29,881	58	86	*32,017	62	2,136	

* Audited up to week ending 6th April 1889.

ASSAM-BEHAR STATE RAILWAY.

PURNEAH SECTION.

Approximate Return of Traffic for week ended 11th May 1889, on 38 miles open.

	Coaching Traffic. Number of passengers.	Coaching Traffic. Coaching receipts. Rs. A. P.	Merchandise and Mineral Traffic. Weight carried. Mds. s.	Merchandise and Mineral Traffic. Receipts. Rs. A. P.	Other earnings (estimated). Rs. A. P.	Total earnings. Rs. A. P.	Traffic Train-miles run. Coaching.	Traffic Train-miles run. Merchandise.	Traffic Train-miles run. Total.
Total traffic for the week	3,000	1,090 0 0	46,290 0	3,250 0 0	20 0 0	4,360 0 0	532	532	1,064
Or per mile of railway .	79	29 0 0	1,218 0	85 0 0	1 0 0	115 0 0		....	
For previous 18 weeks of half-year	†54,192	19,751 0 0	†4,60,656 0	33,023 0 0	3,310 0 0	*56,084 0 0	9,448	9,448	18,896
Total for 19 weeks ...	57,192	20,841 0 0	5,06,946 0	36,273 0 0	3,330 0 0	60,444 0 0	9,980	9,980	19,960
COMPARISON									
Total for corresponding week of previous year ..	3,543	1,114 0 0	36,259 0	2,433 0 0	23 0 0	3,570 0 0	546	546	1,093
Per mile of railway corresponding period of previous year	91	29 0 0	930 0	62 0 0	1 0 0	92 0 0	......	.	
Total to corresponding date of previous year	59,511	20,234 0 0	5,33,955 0	38,806 0 0	877 0 0	59,917 0 0	10,374	10 374	20,718

* Audited up to week ending 6th April 1889.
† Ditto ditto 2nd March 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 12th May 1888. Mean mileage worked.	Receipts for week ending 12th May 1888. Receipts. Rs.	Receipts for week ending 12th May 1888. Per mile worked. Rs.	Receipts for week ending 11th May 1889. Mean mileage worked.	Receipts for week ending 11th May 1889. Receipts. Rs.	Receipts for week ending 11th May 1889. Per mile worked. Rs.	Total receipts from 1st April 1888 to 12th May 1888. Mean mileage worked.	Total receipts from 1st April 1888 to 12th May 1888. Total receipts. Rs.	Total receipts from 1st April 1888 to 12th May 1888. Per mile worked per week. Rs.	Total receipts from 1st April 1889 to 11th May 1889. Mean mileage worked.	Total receipts from 1st April 1889 to 11th May 1889. Total receipts. Rs.	Total receipts from 1st April 1889 to 11th May 1889. Per mile worked per week. Rs.	Total increase in 1889-90. Rs.	Total decrease in 1889-90. Rs.
39	3,570	92	38	4,360	115	39	19,570	84	38	*20,262	80	692	...

* Audited up to 6th April 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 18*th May* 1889, *on* 27½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,798	1,018 0 0	7,383 0	464 0 0	9 0 0	1,489 0 0	509	254	763
Or per mile of railway	103	37 0 0	271 0	17 0 0	......	54 0 0	......	......	......
For previous 18 weeks of half-year	62,721	23,343 0 0	2,05,944 0	12,658 0 0	1,085 0 0	37,085 0 0	9,526	8,265	17,791
Total for 19 weeks ...	65,519	24,358 0 0	2,13,327 0	13,122 0 0	1,094 0 0	38,574 0 0	10,035	8,519	18,554
COMPARISON.									
Total for corresponding week of previous year	3,629	1,245 0 0	7,933 0	536 0 0	22 0 0	1,803 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	133	46 0 0	291 0	19 0 0	1 0 0	66 0 0	......	......	......
Total to corresponding date of previous year	65,990	24,181 0 0	3,06,131 0	17,210 0 0	414 0 0	41,805 0 0	10,180	8,772	18,952

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,803	66	27½	1,489	54	27½	12,778	67	27½	10,574	55	......	2,204

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 18*th May* 1889, *on* 273 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	47,126	16,708 0 0	2,44,681 0	21,209 0 0	4,491 0 0	42,498 0 0	5,445	4,915	10,360
Or per mile of railway	173	62 0 0	896 0	78 0 0	2 0 0	142 0 0*	......	......	......
For previous 18 weeks of half-year	812,440	3,05,542 0 0	28,25,445 0	2,67,366 0 0	63,556 0 0	6,36,464 0 0	101,427	104,489	205,916
Total for 19 weeks ...	859,566	3,22,340 0 0	30,70,126 0	2,88,575 0 0	68,047 0 0	6,78,962 0 0	106,872	109,404	216,276
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	44,965	15,894 0 0	2,34,074 0	20,958 0 0	3,219 0 0	40,071 0 0	5,634	7,557	13,209
Per mile of railway corresponding week of previous year ...	174	61 0 0	865 0	81 0 0	1 0 0	143 0 0*	......	......	......
Total to corresponding date of previous year	875,454	3,40,464 0 0	39,24,531 0	4,29,960 0 0	67,603 0 0	8,38,027 0 0	123,896	156,177	280,073

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	40,071	155	273	42,498	156	259	2,80,246	155	273	2,72,630	143	....	7,616

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs
Approximate earnings for week ending 11th May 1889	14,113
Corresponding week last year	12,363
Increase	1,750
Receipts from 1st January to 11th May 1889	1,68,846
From 1st January to 12th May 1888	1,76,864
Decrease	8,018

	Miles.
Miles open week ending 11th May 1889	51
Corresponding week last year	51

	Rs	A	P
Receipts per mile open week ending 11th May 1889	276	11	7
Corresponding week last year	242	6	8
Increase	34	4	11

Printed and published by WILLIAM ROSS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 29th May 1889.

REGISTERED No. 29.

No. 23 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JUNE 5, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

DISTRESS IN THE PATNA DIVISION.

REVENUE DEPARTMENT.

Darjeeling, the 29th May, 1889.

RESOLUTION.

READ—

A report from the Commissioner of Patna, No. 260G—F, dated 22nd May, 1889, on the condition of the people and prospects of the crops in his division during the fortnight ending 22nd May, 1889.

Ordinary agricultural operations were checked during the fortnight by intense heat and drought; the subsidiary crop of *cheena* crop, which was up to the average in Shahabad, failed in Mozufferpore and Chumparun; the want of water was much felt in the latter district, and prices were slightly enhanced beyond the high rate to which they had previously risen. The conditions were, therefore, as unfavourable as could have been anticipated. But the attendance at the relief works, which is now a little less than thirty-two thousand, has not very greatly increased: in Durbhunga, for instance, it rose from 10,241 to 11,868. There has been nothing like the rush of large bodies for work which characterises the crisis of a famine. Telegraphic advice has since been received as to the effect that the opportune rain which fell, though not in large quantities after the close of the fortnight, has benefited crops on the ground, made the preparation of land easier, and slightly improved the general prospect. It is hoped that in the districts south of the Ganges at least the change in the weather will have caused a very marked improvement in prospects.

The Lieutenant-Governor notices with approval the increase in the rate paid on the Mozufferpore relief works, so as to adjust wages to rising prices, on the principle laid down in the Famine Code; as also the caution given by the Commissioner not to raise rates so as to tempt away labourers from necessary field work when rain falls. A sum of Rs 20,000 has been granted since the close of the fortnight for roads in this district outside the area previously classified as distressed. With reference to the remark that only four roads of those at present dealt with will afford work after 15th June, the Commissioner's attention is directed to the Chief Engineer's estimate made at the commencement of relief operations, which provided road work for 12,752 people at the rate now accepted of 80 cubic feet per man. If this programme be carried out, there will be work in Mozufferpore for numbers much greater than have been employed hitherto.

In Chumparun only have any signs of depletion been observed in the local markets, and even as to that district it is stated that the supplies are still sufficient.

The report states that it has been decided that on completion of the repairs now in hand, no farther relief will be afforded on road works in Durbhunga, future operations being confined to tanks. On this subject the Commissioner will be requested to report separately, as the grounds for the decision arrived at are not understood. It was found convenient, when Sir Steuart Bayley visited the district, to carry on road and tank work simultaneously, and as the rains approach, the objection to relying solely on tank-digging must apparently increase.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

No. 2606—F, dated Bankipore, the 22nd May 1889.

From—JOHN BOXWELL, Esq., Offg. Commissioner of the Patna Division,
To—The Secretary to the Government of Bengal, Revenue Department.

I HAVE the honour to submit my report on the condition of the people and prospects of the crops for the fortnight ending the 15th instant.

PATNA.

2. The weather throughout the fortnight has been very hot and sultry. The threshing and winnowing operations have almost been completed. *Boro* rice in the Barh sub-division is being reaped with a luxuriant outturn. The dearness of provision still continues, but the condition of the people is good up to date. Labourers are getting employment both in the fields and in building and thatching houses and huts, &c.

Dry fodder is plentiful, but the sun being so powerful, there is some difficulty in procuring green fodder.

The following table shows the prices ruling during the fortnight as compared with those of the preceding fortnight:—

	SUDDER.		BARH.		DINAPORE.		BEHAR.	
	Past.	Present.	Past.	Present.	Past.	Present.	Past.	Present.
	Srs. chs.	Srs. chs.	Srs. chs.	Srs. chs.	Srs. chs.	Srs. chs.	Srs. chs.	Srs. chs.
Coarse rice	13 8	13 8	13 4	12 4	11 8	11 8	14 4	13 0
Indian corn	19 0	..	16 8	16 0	17 8	17 0	17 12	17 0
Wheat	15 0	15 8	14 8	13 8	13 8	14 0	15 12	14 4
Barley	20 8	22 0	19 8	18 0	21 0	20 0	23 8	21 8
Gram	20 0	22 8	20 0	18 0	21 0	20 8	19 4	16 8

In Behar the prices are still rising.

SARUN.

3. There are no important food-crops on the ground at present deserving notice. Rain is wanted for *cheena* and indigo.

The prices of chief food-grains current during the last and present fortnight are compared below—

	Present fortnight.		Preceding fortnight.	
	SRS.	CHS.	SRS.	CHS.
Wheat	13	8	14	8
Common rice	12	2	12	14
Marua	20	0	20	0
Gram	19	4	20	8
Indian corn	18	8	19	8
Arhar	17	8	21	0

The Magistrate says that the rise in the prices is chiefly due to combination of the local Bunias and partly to exportation.

The local stocks are yet full.

SHAHABAD.

4. The harvesting of *cheena* has been completed, and an average crop obtained. Sugarcane is now the only crop standing on the ground. It is doing well so far.

There is nothing new to report in regard to the condition of the people. The prices are rising on account of increased demand for export. Common rice is selling at 13¼ seers per rupee, and wheat 14 seers 14 chittacks.

GYA.

5. *Area affected.*—Same as reported in last fortnightly report.

6. *General state of affected tract during last fortnight.*—The circumstances of the people are now getting more tight than before. There are now no crops in the fields except *cheena* and sugarcane. No rain fell during the fortnight. Public health continues good.

The supply of grain in the market is reported to be sufficient. Common rice is selling at 13 seers at Gya, and 13½ seers at Aurungabad, and 12 seers at Nowada.

7. *Public Works open:*—A test work has been opened at Kharout-Seidilla road in Nowada sub-division, but no report about the attendance of the labourers on the work has been yet received.

Excavation of tanks is going on in the Government estate Sarawan in pergunnah Sherghotty.

About 500 coolies are employed on Gilandazi work in the Tikari estate.

Earthwork under tuccavi loans is affording employment to about 300 persons.

The average number of persons employed during the fortnight under the system of payment by result and task work was 74 and 600 respectively.

The number of men paid under section 31 of the Famine Code was three.

8. *Gratuitous relief.*—No expenditure under this head was incurred. Besides the men who are daily fed by the Mohunt of Bodh Gya and other such places, several hundreds are now-a-days employed as well as gratuitously fed at Husua in connection with the marriage festivities of Baboo Dirgopal Lal's daughter.

9. *Advances.*—Fresh sanction for making advances under the Land Improvement Act has been recently received. The applicants who have furnished sufficient securities have been informed that advances will be made to them on their appearing before the Collector. A great many cases are under enquiry.

MOZUFFERPORE.

10. *Area affected.*—The area affected remains the same. The Sub-divisional Officer says that pressure is beginning to be felt much more generally over the sub-division, and will require to be watched very carefully.

11. *General state of the affected tracts.*—No rain has fallen during the fortnight, and prospects will not improve till it falls. The number of persons on relief works has increased considerably, and will probably continue to increase. The country is bare of crops, the *cheena* crop having been a total failure. Here and there some labour is still being done in the fields to prepare them for rice and *bhadoi* sowings, but the amount of labour done is very small.

The Sub-divisional Officer reports that a considerable number of people whom he has seen working on the tanks at Parihar and Surund and on the roads in the neighbourhood certainly did appear to have become reduced by insufficiency of food. The condition of those receiving charitable relief is most miserable.

The public health still continues good. Some few cases of small-pox have been reported, but no cholera.

Prices are steadily rising, but it is noted that the statements show rice at Bela, which is the part where distress appeared to Mr. Bolton to be greatest, was selling at the end of this fortnight at 12 seers 8 chittacks, whereas in the statement for the previous fortnight the price at Bela was given as 10 seers 12 chittacks. The most considerable rise has been at Pupri and Majorgunge, from 12 seers 2 chittacks and 12 seers 9 chittacks last fortnight to 9 seers 8 chittacks and 11 seers 6 chittacks in this fortnight.

12. *Grain stock.*—Supply of grain in the market is reported to be sufficient. The Collector states that the distress is not owing to insufficiency of food-supply so much as it is from the high prices of food and insufficiency of works in the fields.

13 *Public Works open.*—Work is going on on 12 roads or sections of roads. Only four of these roads will afford work after the 15th June, and the Collector says it will be necessary to commence new roads. The rates on the roads were raised on the 13th May to 2¼ annas per 100 cubic feet, and the Sub-divisional Officer considers that it will be necessary soon to raise them to 2½ annas per 100 cubic feet. If prices of food continue to rise, the increase in the rate will be necessary, but the Sub-divisional Officer will be instructed to be careful not to raise the rates so as to make it more profitable for labourers to rush on our works than it would be for them to work in fields when rain falls. The average daily number of persons employed on the roads was 5,152.

Nine tanks are being dug or deepened. The average daily number of persons employed was 3,258. Five of these works were commenced during the fortnight. As the work will not last long, it will be necessary to provide other works.

The daily average number of men, women and children employed on Durbhunga Raj works during the past fortnight was 537.

CHUMPARUN.

14. *Area affected.*—There has been no change in the area affected.

15. *General state of the affected tract.*—No food-crop is at present standing on the ground. Rice and *mung* have been sown in a few places, and rain is anxiously looked for in every part of the district. The Collector says that want of water is very much felt—in fact a water famine is anticipated, all the rivers having been dammed in Nepal. The *cheena* crop is a failure, and the small outturn of the late *rubbee* harvest has nearly been consumed. The poorer classes depend entirely upon loans and labour. The number of labourers on the relief works has increased from 8,865 in the previous fortnight to 10,196 during that under review. The Collector recently visited a large number of villages supposed to be the worst off, and he says that pressure is certainly increasing, and no mitigation is expected until rain falls to admit of general sowings. A few cases of fever were reported from Dhaka Circle. Public health is otherwise good.

16. *Public Works.*—The number of persons employed on the several classes of works was as follows :—

District Board Works.		
Daily wages	6	
Piece-work	182	
Task work	438	
		626
Civil Agency Works.		
Daily wages	56	
Piece-work	5,486	
Task work for able-bodied persons	2,343	
Ditto for infirm	1,685	
		9,570
Total ...		10,196

The number of persons employed on works carried on through tuccavi loans was 1,050.

The markets in the affected tracts are still sufficiently supplied, but signs of depletion are appearing. Prices continue to rise, as will be seen from the following comparison :—

	Common rice.	Paddy.	Indian corn.	Gram.	Rahar.	Khesari.	Barley
Previous fortnight, 30th April	11¼ to 12½	18½	17½ to 18½	18—4	20¾	20½	20½
Last fortnight, 15th May	10—15 to 11	16½	15—14 to 16½	16—7	16—7	18½	16—7

It is reported that stocks are still being hoarded by a few wealthy persons in the hope of higher prices.

17. *Gratuitous relief.*—The number of persons who received gratuitous relief during the past fortnight was as follows.—

Men	...	30
Women	...	28
Children	...	6
Total	...	64

The total expenditure under this head during the fortnight was Rs. 80-4.

DURBHUNGA.

18. *Area affected.*—No change.

19. *General state of affected tracts.*—The Collector reports that the present state of the people is not such as to cause any alarm of immediate starvation. Prices of the different food-grains eaten by the people have, however, risen. The continued drought has greatly reduced the outturn of the *cheena*, and has almost annihilated *mung.*

There has been no rain anywhere except a few drops, of no use, but rather damaging to the *mung*, in the neighbourhood of Lowkaha and Lowkahi. In the Nepal Terai there is reported to have been a heavy storm with hail.

Failure of rain at present gives no cause for alarm. Land is comparatively empty, and there are few crops to be damaged by drought. Hopes and fears about the weather are now connected with the coming year.

Indigo is suffering, but apparently more from what is called *rot* below the ground than from the scorching. The fact is insects have been at work at the roots, and done much mischief. This is a consequence of drought.

Public health remains good. Cholera appeared in one village in Madhubani sub-division. The disease was imported by a traveller from Nepal. Twenty-six deaths occurred out of 46 cases, but the infection was confined to this village.

20. *Public Works open.*—The returns show that 11,668 persons received employment during the last fortnight against 10,241 of the previous fortnight, as shown below—

		Last fortnight.	Previous fortnight
Men	...	10,000	9,090
Women	...	866	571
Children	...	802	580
Total	...	11,668	10,241

The Collector writes—

"The increase in the number of women and children is the remarkable feature of this report, and one I do not like to see, though fortunately it cannot now be long before the main agricultural operation of the year will come into full activity."

The pressure is still visible chiefly in Circles A and B. The roads under repair in the north-eastern parts of the sub-division of Madhubani continue to afford sufficient employment to labourers in Circles C and D. The Sub-divisional Officer, during his late visit to Madhwapore, has seen no beggars on the roads.

It has been decided that no further relief will be afforded on road works, future operations being solely confined to tanks on completion of the repairs now in hand. The Sub-divisional Officer has selected sites for seven of these

works, which will be opened in strict conformity with the principles of the Famine Code. It is the intention of the District Engineer to open these tanks at a uniform width of 200 feet. The area will depend on the demand for labour in the neighbourhood, any rush of labourers being met by an extension of length.

The stoppage of road work necessitates the opening of tanks at numerous centres, as it is not desirable that labourers should travel long distances to and from work. The arrangements which have been made to open tanks throughout Circles A and B will, it is believed, meet all possible demands.

Stocks throughout are reported to be ample, but holders are not selling in hopes of further rise.

The Collector says that crime has been palpably affected by the scarcity. The figures of the Phulparas, Khojowli, and Beniputti thanas, giving a comparison of the thefts and burglaries reported from January to date in the three years 1887, 1888, and 1889, leave it impossible to doubt that crime and high prices have been closely connected. The figures of Madhopore, which lies to the south of the affected area, and where prices have been comparatively low, indicate no local increase of crime—the strongest possible corroboration of the connection between crime and high prices.

21. *Gratuitous relief.*—No expenditure under this head was incurred during the past fortnight.

22. The important points I have to bring to notice in this report are—

(1) There has been no rain in any part of the affected districts during the fortnight.

(2) Prices have risen more or less in every district.

(3) There is a visible increase of crime in Durbhunga, which is apparently due to scarcity.

(4) Road work will soon be stopped in Durbhunga, future relief operations being confined to tank work.

(5) Pressure is being felt far beyond the limits of the affected tracts. This information comes in from many trustworthy sources. In Mozufferpore it will be necessary to provide work, not only outside the affected tract, but outside the Seetamarhi sub-division. I am now making arrangements for this.

(6) Importation of grain from North Bhagulpore to Madhubani, which had been checked by a cholera scare, has begun again.

(7) The total number of people employed on relief works of every kind, public and private, of the three northern districts, is 31,925, and is increasing.

23. I submit a statement showing the allotments made and the expenditure incurred on account of relief operations up to 30th ultimo.

Statement showing allotments made and expenditure incurred in connection with scarcity and relief operations in the districts of the Patna Division up to 30th April 1889.

District.	Civil Agency.			Gratuitous relief.			Agricultural Loans Act.			Land Improvement Act.			Remarks.
	Allotment.	Order sanctioning allotment.	Expenditure.	Allotment.	Order sanctioning allotment.	Expenditure.	Allotment.	Order sanctioning allotment.	Expenditure	Allotment. (a)	Order sanctioning allotment.	Expenditure.	
	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	
Gya	4,000	G. O. No.* 421—27Fam., dated 1st February 1889. G. O. No. 1029—110Fam., dated 13th March 1889. G. O. No. 1651—178Fam., dated 25th April 1889.	2,387	200	G. O. No. 3823, dated 3rd December 1888.	.....	5,000	G. O. No. 3823, dated 3rd December 1888 G. O. No. 421—27, dated 1st February 1889.	2,619	50,000	G. O. No. 421—27Fam., dated 1st February 1889.	......	
Mozufferpore	12,000	G. O. No. 3823, dated 3rd December 1888. G. O. No. 421—27Fam., dated 1st February 1889. G. O. No. 1029—110Fam., dated 13th March 1889. G. O. No. 1651—178Fam., dated 25th April 1889.	7,704	1,500	Telegram of 16th November 1888. G. O. No. 3823, dated 3rd December 1888.	858	15,000	G. O. No. 3823, dated 3rd December 1888. G. O. No. 421—27, dated 1st February 1889.	5,000	15,000	G. O. No. 421—27Fam., dated 1st February 1889.	430	
Durbhunga	17,200	G. O. No. 421—27Fam., dated 1st February 1889. G. O. No. 1029—110Fam., dated 13th March 1889. G. O. No. 1651—178Fam., dated 25th April 1889.	8,063	300	G. O. No. 3823, dated 3rd December 1888.	3	7,000	G. O. No 3823, dated 3rd December 1888.	...	Nil.*	... .	......	* Rs. 10,000 allotted by the Board to this district.
Chumparun	50,000	G. O. No 4140—206, dated 31st December 1888. G. O. No. 421—27Fam., dated 1st February 1889. G. O. No. 1204—152Fam., dated 25th March 1889. G. O. No. 1002—104Fam., dated 11th March 1889. G. O. No. 1651—178Fam., dated 25th April 1889.	44,421	450†	G. O. No. 3823, dated 3rd December 1888.	567	14,500†	G. O. No. 3823, dated 3rd December 1888. G. O. No 421—27Fam., dated 1st February 1889.	17,108	6,000†	G. O. No.* 421—27Fam., dated 1st February 1889.	6,565	† Further allotments since sanctioned.

(a) Does not include the normal annual allotments made for the above district by the Board of Revenue.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE JAIL DEPARTMENT FOR THE YEAR 1888.

JAILS.

Dated Darjeeling, the 1st June 1889.

READ—

The Report on the Administration of the Jail Department for the year 1888.

Read also—

The Reports for the years 1886 and 1887, and the orders of Government recorded thereon.

DR. LETHBRIDGE was in charge from the 1st to the 14th April, when he went on a month's privilege leave. Mr. A. D Larymore, Superintendent of the Alipore Jail, acted as Inspector-General of Jails in addition to his own duties till the 14th May, when Dr. Lethbridge resumed charge, and held it till the 1st November. He then went on special duty; and Dr. Purves, by whom the present report has been submitted, officiated as Inspector-General of Jails in his place up to the end of the year.

2. *Judicial statistics.*—The total jail population rose from the extraordinarily small number of 13,210, due to the Jubilee remissions on the 31st December 1887, to 13,985 on the 31st December 1888. The number of convicts increased from 11,950 to 12,821, and that of under-trial prisoners from 1,002 to 1,116, while the number of civil prisoners owing to recent changes in the law fell from 258 to 48. The following table shows the figure for convicts only during the last ten years:—

	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888
Number of prisoners in jails and subsidiary jails on the last day of previous year	17,936	17,200	16,284	15,231	14,377	13,417	14,051	13,821	13,465	11,950
Admitted direct during the year ..	35,726	33,335	31,465	31,710	29,763	32,034	31,530	30,675	29,942	30,995
Total ..	53,662	50,535	47,749	46,941	44,140	45,451	45,581	44,496	43,407	42,9[illegible]
Admitted by transfer ...	20,500	18,811	17,004	15,760	15,499	16,660	17,265	17,372	16,427	20,185
Total	74,162	69,346	64,843	62,701	59,639	62,111	62,846	61,868	59,834	63,130
Total discharged including transfers ..	56,962	53,062	49,612	48,324	46,222	48,060	49,025	48,40[illegible]	47,884	50,309
Balance at the end of the year ..	17,200	16,284	15,231	14,377	13,417	14,051	13,821	13,465	11,950	12,821
Daily average number of prisoners .	17,258	16,678	15,506	14,801	13,711	13,697	13,757	13,504	10,908	12,378

When the proposals, carried out in 1888, were made to reduce 14 District Jails to the status of Intermediate Jails, it was expected that provision would only have to be made for the accommodation of 11,000 prisoners, and as this number is now greatly exceeded, and there does not seem to be any prospect of an immediate decrease, the Inspector-General will be requested to report whether it is necessary, in order to avoid the risk of overcrowding, to restore any of the Intermediate Jails to their former status. Direct admissions increased from 29,942 in 1887 to 30,995—no doubt in great measure owing to the high prices of food-grains in the greater part of Bengal. The increase is not, however, very serious, as the average annual admissions from 1883 to 1887 amounted to 30,788. The average annual admissions from 1878 to 1882 were 34,233, while in 1878, the last year of great scarcity in Bengal, they numbered 38,929. The frequent transfer of prisoners from Intermediate to District and Central Jails accounts for the large increase under the head of admissions by transfer. The small number of releases under remission rules is due to the fact that many prisoners were released on account of the Jubilee in 1887, whose term of imprisonment would otherwise have expired in 1888. The slight decrease in the percentage of convicts confined in the Central Jails, 57·40 against 59·55 in 1887, is probably due to the same cause, as many long-term prisoners were released in 1887 who would otherwise have swelled the convict population of the Central Jails. The figures, however, show that these are fully utilized, and that a large proportion of the jail population is confined in the jails where the standard of discipline is highest and the labour exacted most suitable. The number released on appeal has increased from 1,903 in 1887 to 1,980 in 1888, and it is a very unsatisfactory feature of the criminal administration that the

number has increased, year by year, since 1882, when the figure stood at 1,384.

3. That only 97 Bengal prisoners were transported as against 137 in 1886 and 168 in 1887 is due to the fact that the figures of those years were swollen, a number of prisoners, who had formerly been rejected for bodily infirmities, being sent to the Andamans under the new rules regulating the selection of convicts. The number sent in 1884 and 1885, respectively, with the more stringent rules then in force, were 37 and 35.

4. A further addition of 145 Burmese prisoners has raised the total number of this class under confinement in Bengal to 422. The Burmese are a dangerous class of prisoners owing to their quick temper and constant desire to escape, but their general behaviour is very good. During 1888 only 434 offences were recorded against 422 prisoners, while in 1887, with only 284 prisoners, 450 offences were recorded. They have, save in a few jails, kept excellent health on the ordinary diet allowed to native prisoners. Most of them are now trained artizans who do valuable work. They can generally speak the language of the district in which they are confined, and a considerable proportion are serving as convict officers in different grades. The responsibilities of jail officers have been considerably increased by having these prisoners in jails which were not intended for the accommodation of transportation prisoners, and the Lieutenant-Governor is still of opinion that something should be done towards introducing a scheme of ticket-of-leave for Burmese prisoners who have served for a certain time in the higher grades as prison officials.

5. As regards the nature of imprisonment, the only noticeable points are that, notwithstanding the increase in admissions, the number of prisoners sentenced to simple imprisonment has decreased from 2,216 to 2,143, and that of prisoners sentenced to rigorous imprisonment with flogging from 103 to 72. The number of females admitted has decreased year by year from 1,595 in 1884 to 1,218 in 1888. The number of re-convicted prisoners admitted into jail rose from 3,472 in 1887 to 3,612 in 1888; but it is not possible to draw comparisons of any value with previous years until the new rules introduced in February 1887, regarding the identification and classification of habitual offenders, have been working some time longer. The number of persons imprisoned for failing to give security for good behaviour rose to 1,070. The number of convicts sentenced to corporal punishment continues to decrease yearly, and fell in 1888 to 1,234 from 1,373 in 1887; on the other hand the number of boys under 16 sentenced to be flogged increased in the same period from 377 to 394.

6. The number of under-trial prisoners admitted during the year rose from 26,240 in 1887 to 28,454, while the average period of detention fell from 17·75 to 16·14 days. The Inspector-General has in his report shown that, taking the Sessions hajat separately, the average period of detention was 44·39 days; he is requested in future reports to show separately the average detention of other prisoners also. It is impossible to calculate it from the figures given in the report, as it is not stated how many hajat prisoners were committed to Sessions.

7. *Jail buildings.*—In the Presidency Jail Rs. 47,804 were spent on the construction of an iron shed, pipes for filtered water, &c. At Dacca Rs. 19,221 were spent on double-storied barracks and the Superintendent's house. In the Bhaugulpore Central Jail Rs. 14,226 were expended on new barracks, and at Buxar a new workshed cost Rs. 14,929. Rs. 47,369 were expended on the building of eight new subsidiary jails and the erection of a pucca enclosure wall to the Kurseong subsidiary jail. The daily average number of prisoners employed on jail buildings was 1,334 against 1,124 in 1887. During the last 12 years Rs. 2,46,235 have, on an average, been provided yearly for building new jails and improving old buildings, and it now only remains to build a few more subsidiary jails to complete the substitution of permanent buildings for the thatched sheds which formerly served in many cases as jails. Some of the buildings on the old standard plan are still unsatisfactory from a sanitary point of view, and the Lieutenant-Governor will take measures in communication with the Inspector-General to effect gradual improvements in the sleeping wards in such cases.

8. *Guards and escapes.*—The high state of efficiency of the warder guard has been maintained, and it is satisfactory that it has been possible to do this with a much smaller number of punishments than was formerly required. The number

of punishments has fallen from 3,133 in 1885, 2,715 in 1886, and 2,359 in 1887, to 1,815 in 1888. Excluding warnings and extra drill, there were only 1,121 punishments among 1,584 men, the number to which the establishment has been reduced from 1,707 in 1887, owing to the reduction of 14 District Jails to the Intermediate class. The number dismissed has fallen from 216 in 1885 to 81 in 1888. Such results were anticipated by Dr. Lethbridge in his report for 1886 as likely to follow when those most frequently reported and punished should have been weeded out.

9. The escapes of convicts from jails and subsidiary jails numbered 21, against 13 in 1887 and 17 in 1886. The most serious of these cases was the escape of a gang of eight convicts from the Darjeeling Jail. These men (three Bhooteahs and five Pahariahs) were at work in the bakery at night, and having first murdered the convict warder in charge of the gang and responsible for its safe custody had no difficulty in making their escape not only from the jail but also from British teritory. Sir Steuart Bayley was satisfied after a full enquiry that there were serious defects in the management of this jail for which the Superintendent was to some extent to blame, as he was not in the habit of visiting the jail at night and examining into the system of guarding in force. A specially selected officer was deputed to take charge of the jail in place of the former Superintendent whose resignation was accepted, but little success has attended the efforts made to recapture the escaped convicts, two of whom only have been brought back. It has hitherto been the practice to confine hillmen, irrespective of the length of their sentences, in the Darjeeling Jail, as they do not keep good health in the plains. In view, however, of the proximity of the Independent States of Nepal, Bhutan and Sikkim, it is not safe to retain hillmen with sentences exceeding one year in the Darjeeling Jail, and orders were issued for their transfer to the Presidency Jail. It is now reported that they do not keep good health in Calcutta, and they will be transferred to one of the Behar Central Jails in the hope that the climate of Behar will suit them better. There were seven other escapes from District or Central Jails, and in every case the jail official responsible was judicially punished. It is satisfactory to note that none of the Burmese prisoners escaped.

10. *Prison discipline.*—As the question of recording jail offences is now awaiting the decision of the Government of India, it is unnecessary to deal with the subject in this Resolution. There is a decrease in the number of offences from 35,824 in 1887 to 29,054 in 1888. Corporal punishment was only inflicted in 245 cases as compared with 266 in 1887. Punishments by Criminal Courts also fell from 44 in 1887 to 29 in 1888. The only form of punishment showing an increase is solitary confinement with reduced diet: the numbers are 251 in 1887 and 352 in 1888. This form of punishment has been found effective in the case of persistent idlers and contumacious prisoners who are not strong enough to be whipped, and is resorted to on Sundays when no work is exacted. Fetters were imposed as a punishment in 8,759 cases against 11,640 in 1887, and in only 64 cases was it resorted to for safe custody.

11. The percentage of punishments to the total average number of convicts employed as convict officers was 200·7 as against 294·2 in 1887. There has been a considerable increase in the number shown as employed, as the convict warders employed to take the place of the paid staff are now included in Statement VIII, and it may be necessary for the Inspector-General of Jails to revise the sanctioned scale of 4 per cent. of the jail population, which has hitherto been considered sufficient. The percentage actually employed was 5·93 in 1888 compared with 4·34 in 1887.

12. The new mark rules have continued to work well, and it is satisfactory that there has been an increase in the number of remissions gained by prisoners undergoing terms of imprisonment not exceeding five years from 304 in 1886 and 293 in 1887 to 334 in 1888.

13. *Expenditure.*—The gross expenditure for all classes of jails, excluding that accounted for in the Public Works Department, rose from Rs. 9,68,033 in 1887 to Rs. 10,68,161 in 1888. The cost per prisoner, however, owing to the larger average population, fell from Rs. 79-0-4 per head to Rs. 77-12-8. There is a large increase in the charges under the

heads Dieting of prisoners, Hospital charges, Clothing and Miscellaneous contingencies. The only head under which there is a material decrease is Establishment. The expenditure for central, district, and intermediate jails only has risen from Rs. 8,12,576 to Rs. 9,08,410, the increase being spread over every item, excepting establishment and petty construction and repairs.

14. Diet charges have risen from Rs. 2,44,730 in 1887 to Rs. 2,95,680 in 1888, partly owing to the larger daily average prison population, and partly owing to the higher prices paid for the chief articles of diet, which has led to an increase in the diet expenditure per prisoner in central, district, and intermediate jails from Rs. 20-4 to Rs. 21-10-10. By far the most important article of diet is rice, and its price rose from Rs. 1-12-8 per maund to Rs. 1-14-10. Maize, dâl and salt also rose in price; while wheat, meat and fish fell. Vegetables and other products worth Rs. 36,284 were obtained from the jail gardens by prison labour. In the Rajshahye, Burdwan, and Khoolna Jails vegetables worth Rs. 52 had to be purchased in the market, owing, it is said, to the insufficient rainfall. It would be desirable in future to give in detail the earnings of each jail under this head, as doubtless greater efforts would be made to economise if each jail got credit for its own earnings. It is to be hoped that Dr. Lethbridge's suggestion, that in future the jailors will be held responsible if condiments have to be purchased from outside, will lead to further economy by obliging all jailors to grow the condiments required in their jail gardens. Steps are being taken to organise a proper system of fish-breeding in jail tanks, which should lead to a considerable saving in the cost of diet. The value of fish supplied for jail consumption should in future be shown under this head among jail products. Making every allowance for the high price of cereals and extra diet given to prisoners in a bad state of health in the Gya Jail, the expenditure there seems excessive as compared with other jails in the same division. In considering the average cost of diet per prisoner, it must be remembered that in Bengal every prisoner sentenced to rigorous imprisonment receives full labouring diet, that no scales of short diets are in use, and that under-trial prisoners now receive full labouring diet.

15. The increase in the average cost of hospital charges, from Rs. 68-3-11 in 1887 to Rs. 76-6 in 1888, is the result of a more liberal scale of diet. The cost of clothing prisoners has risen from Rs. 44,067 in 1887 to Rs. 58,309 in 1888. While this is partly due to the increased number of prisoners, it is not explained why the average cost per head should have risen from Rs. 3-10 to Rs. 4-4. In Bengal the clothing manufactured by jail labour is charged at the market value, and the difference between this and the actual cost of the raw materials is credited to Government in the Manufacturing Department.

16. Contingencies have increased from Rs. 81,190 to Rs. 1,09,213. Of the increase, Rs. 3,871 is due to the increase in transfers, Rs. 11,537 to the payment of municipal taxes for jail buildings, and Rs. 2,105 to the travelling expenses of jail officials, including, for the first time, those of Civil Hospital Assistants sent to do duty in jails. As regards the first item, the success of the organization of jail establishments in Bengal is greatly due to the fact that jailors and their subordinates are not allowed to remain more than three or four years in one jail—a measure which has materially contributed to the efficiency and trustworthiness of the jail service. The transfer charges have been increased by the reduction of 14 district to intermediate jails; the rules requiring the retransfer before release of all prisoners on the police register to the districts in which their homes are situated also accounts for much of this expenditure, and this portion of it which is attended with the best results in the police administration cannot be controlled by the jail administration. So, too, a change of system in paying the municipal tax on jail buildings has saddled the jail expenditure with a charge of Rs. 15,734. Were municipal revenues in Bengal raised as in other provinces by an octroi, from which the Lieutenant-Governor understands articles consumed in jails are exempted, this charge would disappear. This shows the difficulty of comparing jail expenditure in different provinces without some definite rules as to the charges to be entered in statements X and XI of the report. Contingencies include Rs. 8,443 for dieting of defendants paid through Magistrates. This is charged to the Jail budget for convenience of account keeping.

17. *Employment of prisoners, and manufactures.*—The average number of prisoners sentenced to labour increased from 10,698·30 in 1887 to 12,210·17 in 1888; of whom 5,368·39 were employed on manufactures, or 43 96 per cent., against 46·03 in the previous year, while 13 9 per cent. were sick or convalescent against 12·4 in 1887. The other prisoners were employed on prison duties as prison officers, on jail buildings in jail gardens, &c. The net cash earnings decreased from Rs. 2,99,870, or Rs. 60-14 per head on the average number of convicts employed on manufactures, to Rs. 2,66,898, or Rs. 49-12 per head. The net profits increased from Rs. 2,42,741 in 1887 to Rs. 2,69,564; the difference in the result between net profits and net cash earnings is due to the fact that there was a much larger stock of raw materials and manufactured articles in hand on the 1st January 1887 than on the 1st January 1888, and the average profit per head sentenced to labour is nearly the same as in the previous year, namely, Rs. 22-1 as against Rs. 22-11.

18. The average earning of each prisoner in Central Jails is shown in the following table:—

	Average earning per prisoner, 1888.	Average earning per prisoner, 1887.
Presidency Jail	73·0	58·3
Alipore "	43 7	42·7
Buxar "	21·3	40 2
Midnapore "	15·1	30 8
Rajshahye "	12·4	21·2
Bhagulpore "	10·5	0·0
Dacca "	3·7	3·0

19. The working of the Presidency Jail was affected in 1887 by the Jubilee remissions, and its earnings are now again almost the same as in 1886. The great falling off in the Buxar Central Jail is reported to be due to a restricted outturn, as a large stock from the previous year remained in hand. In Midnapore the decreased earnings are attributed to light tasks owing to the indifferent health of the prisoners and to slightly lower rates for the outturn. In the Rajshahye Jail the outturn was considerably reduced in March and April through the failure of the contractor to supply the full amount of castor seed due under the previous year's contract; and while the seed supply for the year was purchased at a higher rate than usual, advantage could not be taken of the rise in the market rate of oil, as the greater portion of the production was supplied to Provincial State Railways at a uniform contract rate.

20. *Subsidiary Jails.*—The management of subsidiary jails has not been in all cases satisfactory. It is desirable that the Inspector-General of Jails should devote close attention to enforcing a stricter supervision and improved administration on the Deputy Superintendents in charge of these jails. Rupees 70,106 has been expended on subsidiary buildings against Rs. 38,857 in 1887. During 1888 new subsidiary jails were built to replace the old buildings at eight stations. The condition of the warder guard was on the whole satisfactory. Convicts were detained on an average for 8·21 days at subsidiary jails before being sent on to district or central Jails, the longest period recorded since 1881. At several of these jails prisoners were detained to work on new buildings, and in some cases of jails showing a high average detention they were kept on account of sickness. It is also to be remarked that the subsidiary jail at Palamow has now been converted into an intermediate jail, but that prisoners with sentences of three months and under were detained at this jail though it was classed as a subsidiary jail during the year under report. In Jamalpore, Arrareah, Nowgong, Satkhira, Bagerhat, and the Khond Mehals under-trial prisoners were detained from 27·17 to 21·57 days. This matter will be dealt with in the Judicial Department. There were 19 escapes as against 17 in 1887 and 20 in 1886. The average cost of each prisoner, excluding the expenditure in the Public Works Department, fell from Rs. 127-8-7 in 1887 to Rs. 121-6-7, owing to the increase in the daily average number of prisoners from 768·38 to 847·45.

21. *Vital Statistics.*—There is ample accommodation in the Bengal Jails for far more than the present number of prisoners. It is reported, however, that five of the district jails were more or less overcrowded during some part of the year, and the Inspector-General is requested to report how he proposes to prevent this in future. He is also requested to report how far it is possible to provide within the present buildings increased accommodation for under-trial prisoners.

22. The sickness and mortality of convicts and under-trial prisoners taken together, for the past 10 years, are shown in the following statement:—

Years.	Daily average number of prisoners.	Daily average sick.	Ratio per mille of daily average sick.	Number of deaths. From cholera.	From all other causes.	Total number of deaths.	Death-rates per mille of average strength. From cholera.	From all other causes.	From all causes.	Remarks.
1878	18,611	803	48·1	215	1,072	1,287	11·5	57 6	69·1	Convicted and under-trial only.
1879	18,483	947	51·2	341	1,411	1,752	18·4	76·4	94·8	
1880	17,802	941	52·8	31	1,100	1,131	1·7	61·8	63·5	
1881	16,520	878	52·8	85	1,014	1,099	5·1	61·4	66·5	
1882	15,902	849	53 3	151	933	1,084	9·5	58·6	68·1	
1883	14,776	729	49·3	61	701	762	4·1	47·4	51·5	
1884	14,868	724	48 6	62	678	740	4·1	45·6	49·7	
1885	14,926	773	51·7	157	730	887	10·5	48·9	59 4	
1886	14,579	648	44·4	40	503	543	2·7	34 5	37·2	
1887	12,047	539	44·7	20	379	399	1·7	31·4	33·1	
1888	13,634	631	46·2	132	482	614	9 7	35·3	45 0	
Total	1,72,148	8,457	538·1	1,295	9,003	10,298	79·0	558·9	637 9	
Average	15,649	768	48·9	117	818	936	7·1	50 8	57·9	

23. Notwithstanding the great increase in the death-rate, there are only three years during the last quarter of a century which show a lower mortality, and excluding the deaths from cholera, there are only two years in which the mortality has been so low. The highest death rate is reported from Lohardugga—191·3 per mille. Out of 26 deaths 10 were due to cholera. It is reported that the health of the district was very bad. The very high death-rates in Singbhoom and Maldah—169·8 and 181·9 per mille respectively—are also connected with the unhealthy state of those districts. In Rungpore, where there was a death-rate of 173·6 per mille, 95·5 of it was due to cholera. The death-rate of cholera generally, 9·7 per mille, has only been exceeded in seven years during the last quarter of a century. There were no cases in 30 out of 44 jails, and in only six were there more than two cases. The disease was worst at Rajshahye, where there were 71 cases and 51 deaths. In the six jails with most cases the cholera had a firm hold on the outside population before any prisoners were affected. Measures are now being taken to provide camping grounds for all central and district jails.

24. Though the most marked feature in the year was the increased mortality from cholera, yet there was also an increase in the death-rate from other diseases. The death-rate from dysentery and diarrhœa rose from 12·6 to 15·5. In the case of remittent and continued fever it rose from 1·5 to 2·3; on the other hand in intermittent fever it fell from 2·5 to 1·8.

25. The Lohardugga, Maldah, Rungpore, Singbhoom and Rajshahye Jails, which show the highest mortality in 1888, have had very few deaths during the past four months. The Lieutenant-Governor regrets to find there has been no improvement in the Gya Jail, and trusts the special measures now being taken will have good results.

26. The following table shows the extent to which prisoners discharged from jails in 1888 improved in health during their residence in jails:—

	1. State of health on admission of those who were discharged from jail, as per column 2.				2. State of health on discharge of those who were discharged from jail, as per column 1.			
	Good.	Indifferent.	Bad.	Total.	Good	Indifferent.	Bad.	Total
In 1888	23,285	8,794	2,793	*34,872	26,352	6,774	1,746	*34,872
Ratio per cent to total number discharged from the jail	66·77	25·22	8·01	100·00	75·57	19·42	5·01	100 00

* Excluding the figures from the Bogra Intermediate Jail.

27. These figures show a slightly greater improvement in the health of the prisoners on discharge as compared with their state on admission, than the corresponding return for last year. As regards loss of weight, however, 20·6

per cent. lost weight in 1888 against 19·3 in 1887, while 3·46 lost over five pounds against 2·86 in the previous year. None of the precautions referred to in last year's Resolution have been abandoned, and the increased death-rate does not appear to be in any way due to any relaxation in the efforts of the jail authorities to keep up a high sanitary standard. It is unfortunately impossible to compare the statistics of jail mortality with that of the outside population, as, notwithstanding the efforts made to improve death registration, the statistics are still far too imperfect to make it possible to base any calculations on them. From* calculations made at the last census, it would appear that the average death-rate in Bengal is nearly 40 per mille, while the returns for 1887 gave only 23·46.

* Report on the Census of British India, Vol. I, page 171.

28. *Inspection.*—Dr. Lethbridge inspected 29 jails and 5 subsidiary jails, and Dr. Purves 9 jails during 1888. There was a slight decrease in the number of visits paid by Judges, who might, the Lieutenant-Governor thinks with advantage, visit jails at their own stations more frequently. Considering that the Alipore, Midnapore, Bhagulpore, Rajshahye and Dacca Central Jails are also the district jails of their respective districts, the number of visits paid them by Magistrates were too few. Though not mentioned in the jail report, the Lieutenant-Governor learns that the non-official visitors paid 137 visits to the jails under their supervision, and showed by their notes that they took an interest in the general management of the jails. This subject should be specially noticed in the annual reports of Jail Superintendents in future years.

29. In conclusion, the Lieutenant-Governor desires to record his appreciation of the good work done during the year by the Inspector-General and the officers of the department generally. There has been a steady improvement, more or less marked, in every branch of jail administration, and the Lieutenant-Governor is satisfied that no effort is spared to remedy any defects that may be brought to light.

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secretary to the Government of Bengal.

REVIEW OF THE TRANSACTIONS OF THE FINE FUND OF THE PROVINCIAL STATE RAILWAYS FOR 1888-89.

No. 1579R.A.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

RAILWAY—Accounts.

Dated Calcutta, the 3rd June 1889.

RESOLUTION.

READ—

Government of India, Financial Department Resolution No. 427, dated 28th June 1880.
Letter No. 2611, dated the 7th May 1889, from the Manager, Tirhoot State Railway.
Letter No. 358, dated the 9th May 1889, from the Manager, Eastern Bengal State Railway.
Letter No. 282N, dated the 16th May 1889, from the Manager, Nalhaty State Railway.

Read also—

Resolution No. 1954R.A., dated 9th June 1888.

OBSERVATIONS.—The review of the transactions of the Fine Fund of the Eastern Bengal State Railway system comprises those of the Northern Bengal, Kaunia Dhurlla, Dacca, and the Assam-Behar section of the Assam-Behar State Railway.

2. The returns from all the lines under the control of the Government of Bengal for the year 1888-89 have been received, and are summarised in the following table:—

RAILWAYS.	RECEIPTS.				EXPENDITURE.			Balance at end of 1888-89.
	Balance on 1st April 1888.	Fines.	Interest.	Total.	Disbursements.	Refunds.	Total.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tirhoot State Railway ...	637 10 11	1,439 3 7	27 3 3	2,104 1 9	950 0 0	21 10 6	971 10 6	1,132 7 3
Eastern Bengal State Railway ...	8,262 1 10	6,474 0 4	261 5 11	14,997 8 1	7,942 12 3	102 4 6	8,045 0 9	6,962 7 4
Nalhati State Railway ...	103 15 6	42 3 6	2 14 2	149 0 2	86 5 9	......	86 5 9	62 10 5

3. Under the head of expenditure, the principal disbursements were as follows:—

Tirhoot State Railway.—Institute Rs. 100; amusements Rs. 650; volunteering Rs. 200.

Eastern Bengal State Railway.—Institute Rs. 1,510; schools Rs. 2,566; volunteering Rs. 508-10-9; assistance to employés Rs. 2,431-10; amusements Rs. 730; other items Rs. 146-7-6.

Nalhati State Railway.—Schools Rs. 84.

RESOLUTION—In the Resolution of the Fine Fund reports for last year. attention was drawn to the unnecessarily high balance of the Eastern Bengal State Railway system. It is observed from the present reports that the balance of the Eastern Bengal State Railway and the Nalhati State Railway has been reduced. That of the former line is susceptible of further reduction, whilst a tendency to increase is noticed on the Tirhoot State Railway. His Honour the Lieutenant-Governor would again draw the attention of Managers to the expediency of keeping the balances of the fund as low as possible; in funds of this nature, large balances are not desirable. Rs. 2,402-10 was spent by the Eastern Bengal State Railway in supplying menials employed in out-door work, who have to undergo exposure, with blankets; Rs. 400 was advanced to the Volunteer Prize Fund, and Rs. 79 to employés; the two latter amounts have since been recovered.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Government of India, in the Public Works Department, and to the Managers of the Bengal Provincial Railways, for information, and that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

T. E. OWEN,

Offg. Under-Secy. to the Govt. of Bengal, P. W. Dept.

LIBERALITY OF RAJA BAIKUNTHA NATH DE BAHADUR AND HIS BROTHER, SONS OF THE LATE RAJA SHYAMANAND DE BAHADUR OF BALASORE.

THE following is published for general information.

By order of the Lieutenant-Governor of Bengal,

MUNICIPAL DEPT., LOCAL SELF-GOVT.
The 31*st May* 1889.

C. CUTHBERTSON,
Offg. Secy. to the Govt. of Bengal.

Dated the 29th May 1889.

From—C. CUTHBERTSON, ESQ., Offg. Secretary to the Government of Bengal, Municipal Department,
To—The Commissioner of the Orissa Division.

I AM directed to acknowledge the receipt of your letters noted in the margin, in which you report that Raja Baikuntha Nath De Bahadur and his brother, sons of the late Raja Shyamanand De Bahadur of Balasore, being desirous of marking by some public act their gratitude to the Government for the honours bestowed on their family, have offered a sum of Rs 4,020 as a contribution towards the construction and metalling of a road from Balasore to Nalkul, to be undertaken and maintained by the Balasore Local Board. The total cost of the road is estimated at Rs. 4,800, and the Local Board, who have accepted the gift of the Raja and his brother on the terms proposed, have agreed to contribute the balance.

No. 9T, dated the 7th March 1889.
No. 187S.G., dated the 7th May 1889.

2. In reply, I am directed to say that the Lieutenant-Governor accepts the offer made by Raja Baikantha Nath De Bahadur and his brother, and I am to request that you will convey to them an expression of His Honour's appreciation of this further proof of their generosity. This letter will be published in the *Calcutta Gazette.*

GIFT MADE BY THE MAHARAJAH OF DURBHUNGAH FOR THE CLEARING OF THE SHIVAGUNGE TANK AT BAIDYANATH IN DEOGHUR.

The 4th June 1889.—The following letter is published for general information.

By order of the Lieutenant-Governor of Bengal,

C. CUTHBERTSON,
Offg. Secy. to the Govt. of Bengal.

Dated the 3rd June 1889.

From—C. CUTHBERTSON, ESQ., Offg. Secretary to the Government of Bengal, Municipal Department,
To—The Commissioner of Bhagulpore.

I AM directed to acknowledge the receipt of your letter No. 422J, dated the 7th May 1889, in which you report that the Maharajah of Durbhungah has promised to make the munificent gift of Rs. 11,466 for the purpose of carrying out a scheme for preventing the silting up of the Shivagunge tank at Baidyanath in Deoghur, clearing it out, and diverting the drainage of the town from this and other tanks.

2. In reply, I am directed to say that the Lieutenant-Governor has much pleasure in acknowledging the generous offer made by the Maharajah, and to request that the thanks of the Government may be conveyed to him. This letter will be published in the *Calcutta Gazette.*

REPORT ON THE WORKING OF THE LICENSED WAREHOUSE AND FIRE-BRIGADE ACT IV (B. C.) OF 1883 DURING THE YEAR 1888-89.

The 3rd June 1889.—The following report is published for general information.

C. Cuthbertson,
Offg. Secy. to the Govt. of Bengal.

No. 29M.M , dated Calcutta, the 25th May 1889.

From—A. Smith, Esq., Commissioner of the Presidency Division,

To—The Secretary to the Government of Bengal, Municipal Department.

Under section 30 of the Licensed Warehouse and Fire-Brigade Act IV (B. C.) of 1883, I have the honour to submit herewith the usual statements A, B. and C, containing particulars connected with the working of the Act during the year 1888-89.

2. The first statement shews the names of the different hydraulic presses jute mills, cotton mills, hand screws and warehouses for the storage of jute licensed in the suburbs during the year and the amount of license fees collected from them, the second represents in the prescribed form the receipts and expenditure under the Act, and the last contains details of the fires that occurred during the year.

3. There has been no change in the number of hydraulic presses, jute mills, cotton mills and hand screws, but in the case of jute warehouses it increased from 108 to 120, 12 such houses having been newly added to the list. The hand screw in No. 1, Ramgopal Ghose's Lane, which was unoccupied in 1887-88, has been worked during the year of report. Of the 120 jute warehouses, 29 remained unoccupied against 32 in the year preceding, house No 33 not being taken into account, it being a double entry, *vide* note against the entry. The notes in the remark column of statement A will show all these facts and furnish other necessary particulars connected with the working of the warehouses.

4. The total amount of license fees realized from all classes of warehouses during the year amounted to Rs. 35,398-3, viz., Rs 21.624-13 from hydraulic presses, Rs. 1 088 from jute mills, Rs 240 from cotton mills, Rs. 645 from hand screws, and Rs. 11,800-6 from jute warehouses, against a total sum of Rs 33,975-12, viz., the same amounts from hydraulic presses, jute mills and cotton mills, Rs. 165 from hand screws, and Rs 10,857-15 from jute warehouses received during the preceding year. Thus there has been a net increase of Rs 1,422-7 in the license fees during the year of report, as compared with the result of the previous year

5. There were nine fires during the year as per details in statement C supplied by the Police, causing a loss to the extent of about Rs. 1,38,175 against 11 fires and a loss of Rs. 10,250 in the previous year.

A.

List of Jute and Cotton Warehouses licensed in the Suburbs of Calcutta during the year 1888-89.

No.	Names of the owners or occupiers of the warehouses.	Locality of the warehouse.	Amount of license fee realised.	Total.	REMARKS.
	Hydraulic Presses.		Rs. A. P.	Rs. A. P.	
1	Camperdown Pressing Company, Limited	4 & 5, Rustomjee Lane, Cossipore.	2,000 0 0		
2	Messrs. S. C. Chunder & Co. (Proprietors, Bengal Hydraulic Press).	4, Sugar Works Lane, Cossipore.	1,920 0 0		
3	Hursookdass Dooli Chand (Agents, Hooghly Hydraulic Press Company).	2, Chitpore Ghât Lane, Nowabputtee.	1,200 0 0		
4	Ashcroft Pressing Company, Limited (owner, Priya Nath Mitter).	10, Nowabputtee Street, Chitpore	1,500 0 0		
5	Messrs. Ernsthausen, Oesterley & Co. (owner, Rajkristo Dass).	5, Calliprosono Singhee's Street, Chitpore.	2,280 0 0		Now Messrs. Voigt & Co.
6	Messrs. Ralli Brothers	3, Sugar Works Lane, Cossipore.	4,500 0 0		
7	Messrs Kettlewell, Bullen & Co. (owner, Russicklaul Seal).	42A, Cossipore Road ...	1,200 0 0		Number changed 31A.
8	R Quilette, Esq. (Agent and Secretary, Calcutta Hydraulic Press Company, Limited).	6. Calliprosono Singhee's Street, Chitpore.	1,684 13 0		
9	Messrs George Henderson & Co (Agents, Watson Patent Press Company, Limited)	1, Gailiff Street, Bagbazar.	960 0 0		
10	Messrs. N. J. Valetta & Co. (Agents, Chitpore Hydraulic Press Company, Limited).	2, Calliprosono Singhee's Street, Chitpore.	2,040 0 0		
11	Messrs. Reinhold & Co. (Managing Agents, Canal Press Company, Limited).	2, Nowabputtee Street, Chitpore.	1,140 0 0		Messrs. McDowell Methven & Co are now agents.
12	Raja Purna Chundra Singh Bahadoor (proprietor, Victoria Press).	7 and 106, Cossipore Road	1,200 0 0	21,624 13 0	
	Jute Mills.				
1	Messrs. Gladstone, Wyllie & Co. (Agents, Clive Jute Mills).	48, Garden Reach Road .	240 0 0		
2	Messrs Bird & Co (Agents, Union Jute Company, Limited).	6, Gooriparah Road, Sealdah.	200 0 0		
3	Messrs Robinson, Morrison & Co. (Managing Agents, Asiatic Jute Company, Limited).	73, Narcoledangah Main Road.	120 0 0		Now Budridass Ramprosad, Managers, Soora Jute Company, Limited.
4	Deputy Superintendent, Alipore Jail ...	5, Jail Lane	120 0 0		
5	Messrs. George Henderson & Co. (Agents, Baronogor Branch Mill).	135, Balliaghatta Road .	120 0 0		
6	Messrs. Gillanders, Arbuthnot & Co. ...	9, Garden Reach Road ..	288 0 0	1,088 0 0	
	Cotton Mills.				
1	Messrs. Mackinon, Mackenzie & Co (Agents, Garden Reach Cotton Mills Association).	22, Garden Reach Road ...	120 0 0		
2	Messrs Andrew Yule & Co. (Agents, Bengal Mills & Co., Limited).	47, Ditto .	120 0 0	240 0 0	
	Hand Screws.				
1	Chundernath Shaha	1, Ram Gopal Ghose's Lane, Chitpore.	480 0 0		Occupied this year.
2	Hurris Chunder Bose	14, Calliprosono Singhee's Street, Chitpore.	165 0 0	645 0 0	
	Warehouses for storage of Jute.				
1	Bidhu Bhusun Mitter (owner, Khelat Chunder Ghosh).	4-6, Khelat Chunder Ghosh's Lane.	50 0 0		
2	Hurrish Chunder Dutt (owner, Nilmony Mitter).	13, Belgatcha Road ...	50 0 0		Now Joynarain Dalal.
3	Agent, Eastern Bengal State Railway .	1, Upper Circular Road ...	600 0 0		
4	Ditto, ditto	8, Chitpore Road ..	1,560 0 0		
5	Nilmadhub Sickdar	18, Ooltadangah Road	132 0 0		
6	Rashbehary and Jollodhur Roy (owner, P K. Mookerjee).	6 & 6A, Prankissen Mookerjee's Lane.	50 0 0		Now Poreshnath and Anath Nauth Sein.
7	Gyan Chunder Sein	15, Ditto, ditto ...	50 0 0		
8	Hurrish Chunder Dutt	19 & 20, Gourebere Lane. .	78 0 0		Now Norottam Sickdar occupied this year.
9	Ditto	37-4, Canal West Road ...	96 0 0		Present No. 37-6.
10	Ditto	39-8, Ditto ditto ...	72 0 0		Now Soorjo Coomar and Gooroo Churn Shaw.
11	Gopaul Chunder Sickdar and Mohesh Chunder Koondoo (owner P. K. Mookerjee).	13 & 12A, Tollah Road ...	50 0 0		Present occupier Janekinath Ram.
12	Shama Churn Bollove (owner, Shama Churn Lahiri).	5, Belgatchia Road ...	60 0 0		
13	Mohesh Chunder Koondoo	3, Kalli Coomar Banerjee's Lane.	......		Unoccupied.
14	Messrs, W. B. Mactavish and Co. ...	Compartment 3 of building No. 3A, Balliaghata	.....		Ditto.
15	Bohary Laul Pyne (owner, Muguljan Ostagar).	25, Mooraripooker Road ...	50 0 0		
16	Prollad Chunder and Norottam Sickdar	83, Barrackpore Trunk Road.	—...		Ditto.
17	Norottam Sickdar	19, Gourebore Lane ...	...		Ditto.
18	Bany Madhub Sickdar	25-1, Canal West Road ..	50 0 0		Present Lolitmohun and Brindabun Shaw.
19	Gopee Mohun Roy	1-1, Budredass Temple Street.	96 0 0		
20	Ditto	29, Canal West Road ..	131 0 0		
21	Mohun Bangshi Roy	36-1, Ditto	.. ...		Unoccupied.
22	Nolit Mohun and Brindabun Chunder Shaw.	24-2, Ditto	} 72 0 0		
23	Ditto ditto ..	24-3, Ditto ...			
24	Jogonnauth Bajpie	18, Cossipore Road... .	. ....		Ditto.
25	Kirty Chunder Mitter	4, Prankissen Mookerjee's Lane.	72 0 0		Now Surup Chandra Siragi and Dwarkanath Roy.
26	Ditto	3, Chitpore Street . ..	360 0 0		Now Priynath Mitter.
27	Tara Churn Goho	7 & 8, Chitpore Ghât Lane	282 8 0		,, Messrs. Duncan Brothers.

No.	Names of the owners or occupiers of the warehouses.	Locality of the warehouse.	Amount of license fee realized.	Total.	REMARKS.
			Rs. A. P.	Rs. A. P.	
		Brought forward ...	......	...	
28	Tara Churn Goho	3, Prankissen Mookerjee's Lane.	50 0 0		Now Dwarkanath Roy.
29	Deep Chand and Hurro Chand Kundoo ..	35-5, Canal West Road	120 0 0		Canal East and not Canal West Road.
30	Bejoy Chander Dutt	41-1, Ditto ditto	90 0 0		
31	Taraprosono Roy	35-4, Ditto ditto .	98 0 0		
32	Sonaton Dey	6, Gourebere Lane .	50 0 0		
33	Kristo Mongal Shaw	39-3-1, Canal West Road	......		Double entry—*vide* No. 78.
34	Soorjee Coomar and Gooroo Churn Shaw	45, Ditto ditto .	..		Unoccupied.
35	Mohima Chunder Koondoo and Koylas Ch. Koondoo.	32, Ditto ditto	72 0 0		
36	Mohima Chunder Koondoo	31, Ditto ditto	84 0 0		
37	Goburdhone Shaw	46, Ditto ditto ..	120 0 0		Canal East and not Canal West Road.
38	Kallichurn Pudder (owner H. C. Dutt)...	10, Budredass' Temple Street	50 0 0		Occupier Hurish Ch. Dutt.
39	Radha Kristo Goho	1, Chitpore Street	54 0 0		
40	Ditto ditto	7, Prankissen Mookerjee's Lane.	.....		Unoccupied.
41	Tara Chand Goho	7, Ditto ditto ...	258 0 0		Ram Kristo Pattack and others.
42	Bonomally Koondoo	2, Bonomally Chatterjee's Street.	50 0 0		
43	Dwarkanauth and Bonomally Koondoo ...	20, Chitpore Ghât Lane ...	210 0 0		Present No. 25.
44	Prollad Chunder and Degamber Sha ..	21, Ditto ditto ...	102 0 0		Due to reduction in the valuation.
45	Ditto ditto	4, Ditto ditto ...	60 0 0		Present No 6.
46	Kalli Sunker and Tarucknauth Koondoo	6, Tulla Road	66 0 0		Present occupier Nobokishore and Akhini Coomar Roy.
47	Ditto ditto ..	22, Ditto ..	82 13 0		Present occupier Kalliprosono and Lolit Mohun Das, occupied this year.
48	Rajendro Laul Shaw and four others ...	3 & 4, Chitpore Ghât Road	158 0 0		Occupier Heeranath Biswas and others.
49	Nuffer Chunder Ta	Ditto ditto ...	82 0 0		Issur Chunder Ta.
50	Madhub Chunder Dutt ..	7, Nowabputty Street	..		Unoccupied.
51	Dwarkanauth Bhunjo . .	6, Oolie Chunditollah Road	50 0 0		Ditto.
52	Chundernauth Dalaul	51, Belgatcha Road	. ..		Ditto.
53	Ditto ditto	9, Ditto ditto			Present No. 5, occupier Dwarkanauth Roy.
54	Utsab Narain Chowdhory	10, Settpooker Road	100 0 0		Present No. 4.
55	Dwarkanauth Roy	6, Tollah Road ..	66 9 0		
56	Ditto .. .	14, Prankissen Mookerjee's Lane.	63 9 0		
57	Messrs. W. B. Mactavish & Co.	10, Belgatcha Road ..	78 0 0		Present occupier Chunder Nauth Dalaul.
58	Koylas Chunder Banerjee (owner Nil Mony Mitter).	13, Ditto ditto.	.. ..		Unoccupied.
59	Hurrish Chunder Dutt	10, Chitpore Ghât Lane ...	50 0 0		Present No 10A.
60	Messrs. Ernsthausen, Oesterley (Agents, Strand Bank Press, & Co., (owner Kali Das Seal)	3, Kalliprosono Singhe's Street, Chitpore.	420 0 0		Present Messrs. Voight & Co.
61	Ditto ditto ditto ..	3A, Ditto ditto.	800 0 0		Ditto ditto
62	Ramanauth Das .	1, Chitpore Bridge approach.	180 0 0		George Henderson & Co.
63	Kalinauth Pudder	2, Budredass' Temple Street	50 0 0		Present Mohima Ch. Coondoo.
64	Sorup Chunder Seragi (owner Tara Chand Pudder).	13, Prankissen Mookerjee's Lane.	50 0 0		Present Poresh Nauth Sen and Ananth Nauth Sein.
65	Brojodoyal Shaw (owner G. C. Roy) .	7, Settpooker Road	50 0 0		Gobind Chunder Ghosh.
66	Hurrish Chunder Bose -	12, Calliprosono Singhe's Street.	60 0 0		
67	Lolit Mohun and Brindabun, Shaw (owner K. K. Pudder).	51, Chowolputty Road ..	55 9 0		
68	Brindabun Chunder Roy (owner Russick Laul Shaha).	8, Prankissen Mookerjee's Lane.	324 0 0		
69	Ditto ditto (owner B. K. Chatterjee).	2, Ditto ditto.	78 0 0		Nobokishore and Akhini Coomar Roy.
70	Mr. F. Augier ... --	14, Kalliprosono Singhe's Street.	...		Unoccupied.
71	Koylas Chunder Mondal	7, Chitpore Bridge Road			Ditto.
72	Preonauth Mitter	1, Lockgate Road ..	360 0 0		
73	Messrs. Chew and Pal (owner Giribala Dassee).	10, Nowabputty street ...	.		Ditto.
74	Norottam Sickdar	60, Gourebere Road ...	102 0 0		
75	Komolacanto Chuckerbutty (owner R. N. Koondoo).	10, Nowabputty Street ...	......		Ditto.
76	Shama Churn Bollove (owner S. C. Lahiri).	5, Belgatcha Road .	50 0 0		Present No. 5A. Occupier Hurridas Biswas.
77	Hurrish Chunder and Beenod Behary Dutt).	39-3-1, Canal West Road.	120 0 0		
78	Nilmadhub Sickdar	16, 17 Gaileff Street .	50 0 0		Present No. 12.
79	Messrs. Chew and Pal (owner Indro Narain Biswas).	2, Sheekparah Road ...	50 0 0		Present occupier Indronath Biswas.
80	Sidam Chunder and Issur Chunder Coondoo.	55, Barrackpore Trunk Road.	. ....		Unoccupied.
81	Issur Chunder Banerjee	55A, Ditto ditto.	..		Ditto.
82	R. L. Mitter and S. C. Bose (owner H. L. Dass)	38, Belgatcha Road .	......		Ditto
83	Messrs. Finlay, Muir & Co (owner A. C. Chatterjee).	15, Tollah Road	.. ...		Ditto.
84	Agent, Eastern Bengal State Railway ...	6, Chitpore Street .	480 0 0		
85	R. Quilette, Esq. (owner Kallidass Seal)	3A, Kallprosonno Singhe's Street.			Unoccupied
86	Messrs. Ernsthausen, Oesterley & Co. (owner Raj Kristo Dass).	5A, Ditto ditto .	300 0 0		Messrs. Voigt & Co
87	Kalli Sankar and Tarrucknauth Kundoo	39-4-1, Canal West Road .	60 0 0		
88	Dwarkanauth Roy (owner N. L. Mullick)	5, Tollah Road	64 13 0		Rs. 64-13 realized.
89	Sreedhur and Gopaul Mullick	5, Prankissen Mookerjee's Lane.	50 0 0		Present occupier Gobindo Chunder Ghose
90	Kallidass Roy	6, Ditto ditto	. .		Unoccupied
91	Sunkur Prosaud Bachusputty .	4, Chitpore Street . ..	..		Ditto.
92	Bharat Chunder Shaw and Jeeban Kristo Ghose.	13A, Belgatcha Road ..	50 0 0		Present occupier Jibun Kristo Ghose
93	Sunkur Prosad Bachusputty	14, Nowabputty Street	50 0 0		Present occupier Shib Ch. Dass.
94	Khetter Mohun Bose	16, Pykepara Road	50 0 0		Present occupier Trannauth Bose

No.	Names of the owners or occupiers of the warehouses.	Locality of the warehouse.	Amount of license fee realized.	Total.	REMARKS.
			Rs. A. P.	Rs. A. P.	
95	Nobin Chunder Roy (owner, Noyan Chunder Chatterjee).	46A, Belgatcha Road ...	50 0 0		Present occupier, Nim Chand Moitra.
96	Beedhu Nauth Mondul and others ..	43, Ditto	. ...		Unoccupied.
97	Sedam Chunder Koondo	5A, Kalli Coomar Banerjee's Lane.	......		Ditto.
98	Umesh Chunder Roy and Preonauth Sein.	2, Chitpore Street	50 0 0		Pores Nauth and Anath Nauth Sen.
99	Sorup Chunder Seragi	4, Prankissen Mookerjee's Street.	....		Unoccupied.
100	Kissorylaul Mookerjee	1, Chitpore Cross Road ...	50 0 0		Dwarkanauth Roy.
101	Protab Chunder Ta	16, Nawabputty Street ...	......		Unoccupied.
102	Prankissen Mookerjee	4, Settookor Road .. .	... .		Ditto.
103	R. Quilette, Esq.	6-1, Kalliprosono Singhee's Street.	960 0 0		
104	Surjoo Coomar and Goroo Charan Shaw (owner, Indronaram Biswas).	40A, Canal East Road ...	50 0 0		Madhub Chunder and Radhanauth Shaw.
105	Muddon Mohun Dey Dallal	48, Ditto ..	.. ...		Unoccupied.
106	Preonauth Mitter	9, Prankissen Mookerjee's Lane.	69 9 0		Occupier, Tara Chand Goho.
107	Indronarain Biswas	48B, Belgatcha Road .	50 0 0		Bharat Chundra and Dwarkanauth Shaw.
108	Bhuban Mohun Ghose (owner, Indronarain Biswas).	80B, Ditto	50 0 0		
109	Hurri Priyo Coach	27, Tollah Road	50 0 0		New.
110	Nilmadhub and Jadub Chunder Sickdar	15, Ditto	240 0 0		Do.
111	Poreshnauth Bose	3, Shaikparah Road ...	50 0 0		Do.
112	Jadubnath Goswami	85, Belgatcha Road .	50 0 0		Do.
113	F. Augier, Esq.	4, Kalliprosono Singhee's Road.	50 0 0		Do.
114	Messrs. Balli Brothers (owner, Raj Coomar)	25, Pykepara Road ...	50 0 0		Do.
115	Boulomali and Audnur Chunder Khauroo	41, Barrackpore ...	50 0 0		Do.
116	Mohendronath Sett	62-1-1, Wooltadangah Road	100 0 0		Rs. 50 for 1887-88. Rs. 50 for 1888-89.
117	Beharylaul Paine	9, Dum-Du Road .	50 0 0		New.
118	Norottam Sickdar	61, Barrackpore	50 0 0		Do.
119	Messrs. Balli Brothers .	5, Wooltadangah Lane .	50 0 0		Do
120	Koonjobehary Bose .. .	3, Tallygunge Road	50 0 0		Do.
				35,398 3 0	

B.

CR. *Jute license fees on account of Suburbs of Calcutta.* **DR.**

	Rs. A. P.		Rs. A. P.
By amount of jute license fees for the year 1888-89 received during the year	35,398 3 0	To amount of executive charges of the Municipality at 20 per cent	7,079 10 3
		To amount paid to the Calcutta Police for Fire-Brigade Fund at 80 per cent. ..	28,318 8 9
Total ..	35,398 3 0	Total .	35,398 3 0

C.

Extract from the Register of Fires and Operations of the Calcutta Fire-Brigade

Date.	Locality of fire with section letter.	Time of out-break.	Time of alarm at fire-station.	Time of arrival of brigader.	Property destroyed, with approximate value, and whether insured or not.	Cause of fire.	REMARKS.
1st May ...	Chitpore, Section B, Suburbs.	2 A.M.	2-30 A.M.	3 A.M.	A range of pucca godowns containing about 1,000 maunds of cotton. Damage Rs. 15,000. Insured.	Unknown	Steam engine was withdrawn at 6 A.M., but No 6 manual engine was worked by mill coolies for three days.
21st June ...	Ballygunge, Section H, Suburbs.	2-30 A.M.	2-45 A.M.	3-15 A.M.	Five tiled huts, value Rs. 200. Not insured.	Ditto ...	All out at 4 A.M
16th October	Tolly's Nullah, Section M, Suburbs.	5-30 A.M	5-35 A.M.	6. A.M.	A boat laden with straw, value Rs. 1,000. Not insured.	Ditto	All out at 9 A.M.
20th December	Canal Jute Press, Section B, Suburbs.	2 P.M.	2-15 P M.	2-30 P.M.	A range of jute presses and a range of godowns containing about 50,000 maunds of jute. Total loss about Rs. 4,00,000. Insured.	Ditto	All out on the 24th instant.
21st Ditto ..	Sham Bazar, Section C, Suburbs.	12 Noon.	12 10 Noon.	12-30 Noon.	Fifteen tiled huts, value Rs. 500. Not insured.	Fire from a choolah ignited a pile of straw in the house of Shaik Essack.	All out at 1-30 P.M.
1889.							
29th January ...	Entally, Section F, Suburbs.	1 A.M	1-15 A.M.	1-30 A.M.	Twenty-five tiled huts, value Rs. 2,000.	Fire from a choolah ignited a mat wall in the house of Shaik Romjan.	All out at 4 A.M.
9th March .	Bank of Tolly's Nullah, Section K, Suburbs	1-15 P.M.	1-30 P.M.	1-45 P.M.	Four tiled huts, value Rs. 125 Not insured.	Unknown	All out at 3-30 P.M.
10th Do.	Banatolla, Section S, Suburbs	3-45 P.M	4 P.M.	4-15 P.M.	Five goolputta huts, value Rs. 100. Not insured.	Fire from a pot of fire kept close to a mat wall ignited the wall.	All out at 5-15 P.M.
10th Do ..	No. 5, Settpooker Road, Section B, Suburbs.	10 P.M	10-5 P.M.	10-15 P.M	One godown about 40 feet by 30 feet containing 1,750 drums of jute, value Rs. 12,500; 1,000 bags of rice, value Rs. 6,000; and 75 bags of ginger, value Rs. 750 : total Rs. 19,250.	Unknown.	All out at 6 P.M of 11th instant

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 1st June 1889.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.	*Western Districts.*		
BURDWAN DIVN.			
1	Burdwan June 1, '89 Raneegunge ...	0·55 1·02	Weather—hot. More rain wanted throughout the district. Standing crops doing well. Common rice 15 seers at Culna, 14¼ seers at Cutwa, 14½ seers at Raneegunge, and 15¼ seers at Sudder.
2	Bankoora „ 1, '89 Bissenpore ...	1·08 1·40	Weather—seasonable. Ploughing and sowing of fields for next rice crop going on briskly everywhere. Common rice sells at 17½ seers per rupee at Sudder as well as at Bissenpore.
3	Birbhum „ 1, '89 Rampur Hât ...	0·72 0·42	Weather—very hot. Sky overcast. The rain has done a great deal of good and ploughing is actively going on. Prices of rice steady at 13½ seers per rupee.
4	Midnapur „ 1, '89	0·13	Weather—has become hot again and no sign of more rain. The recent rain was useful, but more is wanted at once. Prospects of indigo will be very bad unless there is rain within a week. *Til* crop in Ghatal has failed entirely for want of rain. Prices of rice are— Rs. A. P. Midnapore ... ... 2 9 3 per maund. Contai ... ... 2 8 0 ditto. Ghatal ... ... 2 8 0 ditto. Tumlook ... ... 3 0 0 ditto.
5	Hooghly „ 1, '89 Serampore ... Jehanabad ...	...... 0·05 0·24	Temperature has fallen. More rain wanted. Prices stationary.
	Howrah „ 3, '89	0·43	Weather—windy; fairly cool. More rain much wanted. Tilling for *aus* and *amun* begun. Price of common rice still high—13½ seers per rupee.
	Central Districts.		
PRESIDENCY DIVN.			
6	24-Perghs. June 4, '89	1·09	Weather—hot with high winds and passing clouds. Prospects much improved in consequence of the rain which has fallen of late. Sowing of rice and jute proceeding, and ploughing general. Price of common rice has fallen slightly in the Diamond Harbour sub-division.
7	Nuddea „ 1, '89 Kooshtea ... Ranaghat ...	Nil 0·22 0·46	Weather—unusually hot with high south winds. Sowings of early rice have been completed in the Chooadanga sub-division, but in other places they are still going on. Rain urgently wanted. Sowings of jute and early rice will be stopped if there be no rain soon. Sugarcane on the field doing well.
8	Khoolna „ 1, '89	Nil	Weather—hot. No rain during the week in Khoolna or Bagirhat, but ·66 inch has fallen in Satkhira, where some *aus* and jute have been sown; a little jute has also been sown in the Sudder, but cultivation is everywhere backward and prospects are unsatisfactory.
9	Jessore „ 1, '89 Jhenidah .. Magura ... Narail ... Bongong ...	0·16 0·78 1·56 2·20 0·20	Weather—very hot with high wind. The slight rain which fell during the week has done some good to the sowings. More rain is urgently wanted. Prices of rice stationary.
10	Moorshedabad „ 1, '89 Lalbagh ... Jungipore ...	0·12 0·63 0·60	Close and hot weather with passing clouds. Southerly wind and a little rain. More rain is needed in Jungipore and Lalbagh. Prospects continue good.
11	Dinagepur „ 1, '89 Thakurgaon ...	0·91 0·11	Weather—hot with variable winds. The continued absence of heavy rain leaves very little prospect for the *bhadoi* rice and jute crops. Very little of the former has been sown yet. Price of common rice 14 to 15 seers per rupee.
RAJSHAHYE DIVN.			
12	Rajshahye „ 1, '89 Nattore ...	Nil 0·02	Weather—very hot; strong south winds for the last two days. Rice, jute, and *til* sowings delayed, and seedlings withering for want of rain. Price of rice averages 14½ seers per rupee, and is rising.
13	Rungpore „ 1, '89 Gaibanda ... Kurigram ... Nilphamari ...	0·89 2·02 0·10 1·27	Weather—unsettled, sultry with occasional storms. The cry is still for rain, especially in the south, where large areas are still fallow. A partial failure of jute and sugarcane has resulted from the drought. Paddy is coming up fairly well. Price of rice shows a decided upward tendency.
14	Bogra „ 1, '89 Sherpore ... Nowkhilla ...	0·22 0·47 1·03	Weather—excessively hot, and in the middle and west of the district excessively dry. Winds variable. The sowing of jute and rice is still going on, but the sowing and the growth of the seedlings are sadly retarded by the prolonged drought. Rain is very badly wanted. The *aus* crop has been sown on about 12 annas of the usual area. The prospects of sugarcane and *til* are also poor. Cattle disease is rather prevalent in some parts. The price of rice has risen. Common rice is now selling at 12 to 13 seers a rupee.
15	Pubna „ 1, '89	Nil	Weather—hot. Local showers. Prospects of crops in Serajgunge sub-division satisfactory, but not so good in Sudder sub-division, where sowings of *aus* and *amun* are restricted by insufficient rain. Common rice sells at 14 seers per rupee.
16	Darjeeling „ 1, '89	0·85	Weather—sultry. Crops progressing favourably, but more rain wanted. Sowings of jute and *bhadoi* nearly finished in Terai. Sowing of *haimanti* commenced.
17	Julpigoree „ 1, '89	0·04	Weather—hot and occasionally cloudy. Sowing of *bhadoi* and jute completed. Prospects generally good. Preparation of land for *haimanti* commenced in places. Rain is urgently wanted. Common rice sells at 16 seers per rupee at the Sudder station.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca June 1, '89	0·78	Weather—hot with occasionul storms. Heavy rain in Naraingunge on the 26th, 28th, and 29th. Sowing of *amun* and *aus* paddy nearly completed. Jute sown on 9 annas of the usual area, and is coming up well. No special change in the prices of food-grains. Fodder is available.
19	Furreedpur „ 1, '89	0·10	Weather—cloudy and unsettled. Very hot. Sowing of paddy almost completed; but prospects of *aus* not favourable owing to want of rain. Prices steady.
20	Backergunge „ ...	......	Report not received.
21	Mymensingh „ 1, '89	1·77	Weather—hot and cloudy. Prospects of crops good.

No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
	Eastern Districts—concld.			
Chittagong Divn.				
22	Chittagong	June 1, '89	0·77	Weather—seasonable. Prospect of *aus* is not good owing to the want of sufficient rain, but that of other miscellaneous crops is fair.
23	Noakholly	„ 1, '89	2·69	Weather—warm and sultry. Sowing of *aus* finished More rain is necessary for the crops. Price of rice stationary.
24	Tipperah	„ 1, '89	1·00	Weather—hot and close. A little *amun* is still being sown in Brahmanberiah. Crops generally doing well. More rain wanted.
25	Chittagong Hill Tracts	...	......	Report not received.
	Hill Tipperah	June 1, '89	1·18	Weather—hot. Sugarcane and jute doing well. Sowing of *aus* paddy completed. Rice selling at 14 seers per rupee.
BEHAR.				
Patna Divn.				
26	Patna	June 1, '89	0·95	Weather—hot. Rain will help the cultivators to prepare lands for *bhadoi* sowings. It has also benefited sugarcane and *cheena*. Prices of food-grains almost stationary.
27	Gya	„ 1, '89	Nil	Weather—very hot. Sugarcane doing well. Prices of food-grains stationary.
28	Shahabad	„ 1, '89	Nil	East winds have generally prevailed and temperature has been lower. The recent showers, which were heavy in parts of the district, have enabled land to be ploughed for the *bhadoi* crop. Prices stationary. Markets well supplied.
	Sasseram	.	0·03	
29	Durbhunga	„ 1, '89	Nil	Weather—very hot with high east winds. In places where the late rain has fallen, the prospects of *dhan*, *mung*, and indigo have much improved. *Bhadoi* crops have commenced to be sown. More rain is immediately wanted to facilitate ploughing operations. Common rice is selling at 11¼ seers to the rupee.
30	Mozufferpur	„ 1, '89	0·15	Weather—cloudy in first half of week, clear and hot in last half. Rain is much wanted. In some places the rice seedlings are suffering for want of rain. Indigo prospects are very unequal, in some places fair and even good, in others bad.
	Hajipur	...	0·19	
	Sitamarhi	...	0·30	
31	Sarun	„ 1, '89	0·10	Weather—some storms at first; now very hot with west winds. Rice nurseries and *cheena* and indigo benefited by rain. Lands everywhere being prepared for *bhadoi* crops.
32	Chumparun	„ 1, '89	0·25	Weather—very hot with varying winds. Recent showers have been of great benefit, though more rain is badly wanted. Paddy sowings generally in progress. Prices have fallen slightly.
	Bettiah	..	0·52	
Bhagulpore Divn.				
33	Monghyr	„ 1, '89	Nil	Weather—hot and sultry. Ploughing for *bhadoi* sowings going on everywhere. More rain wanted. Prices stationary.
	Beguserai	...	0·83	
	Jamooe	..	0·19	
34	Bhagulpur	„ 1, '89	0·23	Weather—very sultry again. In the south cultivation is proceeding, and *bhadoi* sowings have been getting on, but cannot yet be completed on high lands without more rain. In the two north-east pergunnahs of Soopool sowings are retarded, and rain is urgently required. Over rest of the northern subdivisions about half the early rice has been sown, but not a fourth of the marua. Prospects bad. Price of rice varies from 11 to 13 seers per rupee.
	Banka	...	0·22	
35	Purneah	„ 1, '89	0·80	Weather—very hot and sultry. Crops require very much more rain. Rain will come too late if it is delayed much longer.
	Arrareah	...	0·25	
36	Maldah	„ 1, '89	Nil	Weather—hot and cloudy. Harvesting of *boro* rice still going on; an average outturn is expected. Much more rain is wanted for the preparation of lands for winter rice, and for *bhadoi* sowings and for indigo, jute, &c. Common rice selling at an average of 13¼ seers per rupee.
	Shibgunge	...	0·25	
	Gajole	...	018	
37	Sonthal Perghs.	„ 1, '89	1·13	Weather—very hot again during the latter part of the week. Sky clear. Paddy is being sown in Deoghur, Godda, Pakour. Rajmehal, and Dumka. Jamtara is still suffering from scarcity of rain. More rain is wanted everywhere. Prices continue to be very high. There has been a considerable falling off in the number of persons on relief works since last week.
	Deoghur	...	0·57	
	Godda	...	1·80	
	Jamtara	...	0·18	
	Pakour	...	1·41	
	Rajmahal	...	1·19	
ORISSA.				
Orissa Divn.				
38	Cuttack	„ 1, '89	0·75	Weather—hot; mornings cloudy. Ploughing going on and in some places sowing has commenced. The rainfall of this week is beneficial towards the Jajipur side. Price of rice rising.
39	Pooree	May 31, '89	Nil	Rain has fallen pretty generally throughout the district. Land is being ploughed for the ensuing *sarad* crop, and sowing has commenced in some places. More rain is wanted. Price of common rice varies from 21 seers to 14 seers 7 chittacks in the Sudder sub-division and from 15 seers 1 chittack to 13 seers 2 chittacks in the Khoordah sub-division.
	Khoordah	...	0·62	
40	Balasore	„ 1, '89	1·55	Weather—seasonable. Lands being ploughed and in a few places sowings of rice have commenced. More rain wanted.
CHOTA NAGPORE.				
	South-West Frontier Agency.			
Chota Nagpore Divn.				
41	Hazaribagh	June 1, '89	Nil	Weather—bright. Very hot again. Ploughing going on and preliminary sowings of paddy have been made. Sugarcane improved by recent rain.
42	Lohardugga	„ 1, '89	0·49	Weather—very hot. Slight rain during the week. Sowing of early paddy is going on in the head-quarters sub-division. Fields are being prepared for *gora* and *gundli* in the Palamow sub-division. Prices are daily rising in Palamow.
	Palamow	...	1·69	
43	Singbhoom	„ 1, 89	Nil	Weather—clouds disappeared. Heat increasing. Sugarcane thriving.
44	Manbhoom	„ 1, '89	1·23	Weather—very hot. The late rain has done good, but more is wanted. Paddy is being sown and ploughing is going on. Scarcity of water is felt in many parts of the district.
	Govindpur	...	1·35	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 4th June 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of May 1889.

	Inches.	Date.	Hour.
The mean pressure of the month	29·679		
The average pressure of May from 24 years' registers ...	29·656		
The highest pressure in the month	29·836	17th	10
The lowest pressure in the month	29·499	19th	16
The range of pressure	0·337		
	Hours.		
The total number of hours of bright sunshine during the month	273·1		
The maximum possible number of hours of sunshine ...	408·3		
	°		
The mean temperature of the month	87·4		
The average temperature of May from 24 years' registers ..	86 1		
The highest temperature in the month	101·8	2nd.	
The lowest temperature in the month	70 4	22nd.	
The range of temperature during the month	31·4		
The mean daily range of temperature	15·7		
The greatest range of temperature in one day	22·2	20th.	
	Per cent.		
The mean humidity of the month	74		
The average humidity of May from 24 years' registers ...	73		
	Inches.		
The mean vapour tension of the month	0·958		
The average vapour tension of May from 9 years' registers ..	0·933		
The mean cloud proportion of the month	3 38		
The average cloud proportion of May from 12 years' registers	4·55		
	Inches.		
The total rainfall of the month	3·53		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	3·30		
The average fall of May from 48 years' registers ..	5·40		
The greatest fall in 24 hours	1·46	21st.	
	Days.		
The number of rainy days in the month	8		
The average number of rainy days in May from 24 years' registers	13		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	154·2		
The mean difference of sun and air temperatures	59·3		
The greatest sun temperature	161·2	2nd.	
The greatest excess of sun over air temperature	65·7	13th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	76·9		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	2·4		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	5·1	18th.	
	Miles		
The mean movement of the wind per day	227·7		
The greatest movement of the wind in one day	362·0	5th.	
The greatest movement of the wind in one hour	27·0	21st 4 to 5 P.M.	

The number of hours with winds from each of the 8 points—

N. 9, NE. 6, E. 18, SE. 26, S. 261, SW. 348, W. 16, NW. 9, Calm 51.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0·5° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

N.B.—In the monthly abstract for April 1889 read "26" for "56," the number of hours with wind from N. W.

A. PEDLER,
for Meteorological Reporter to the Govt of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 3rd June 1889.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·727	29·739	—	SW	250·3	98·1	29th May	78·1	26th, 27th May.	92·3	83·0	87·2	—	86·5
		Gopalpore	29·720	29·770	+·056	SSW	389·7	91·7	30th "	80·8	27th "	91·1	84·4	87·6	+2·6	88·0
		False Point	29·726	29·747	+·055	SSW	322·3	92·0	27th—29th May.	75·1	25th May	91·6	79·5	85·6	—0·3	87·6
	Cuttack	Cuttack	29·671	29·751	+·074	SSW	95·7	104·9	29th "	75·8	25th, 26th May.	100·6	79·4	90·0	—0·3	87 6
	Balasore	Balasore	29·688	29·747	+·068	S	271·9	99·5	31st "	74·8	28th, 29th May.	95 0	77·7	86·4	+0·6	85·4
South-West Bengal.	South-West Midnapore; South 24-Pergunnahs	Saugor Island	29·732	29·758	+·065	SSW	45·9	95·7	31st "	81·5	26th "	94·3	84·2	89·3	+2·4	87·7
	Midnapore	Midnapore	29·588	29·739	+·062	S	183·1	105·4	31st "	77·3	26th "	99·6	79·5	89·6	+2 4	85·5
	24-Pergunnahs; Howrah; Hooghly	Calcutta	29·719	29·740	+·052	SW	127	96·5	29th "	75 2	29th "	93 9	78·6	86·3	+0 3	85·5
	Burdwan	Burdwan	29 620	29·720	+·040	S	82·4	105·7	31st "	76·9	26th "	98 0	79·8	89·0	+1·1	85 1
	Bankoora	Bankoora	29·406	29·703	—	Calm	92	108·6	31st "	74·6	26th "	99·7	79·4	89 6	—	85·5
	Beerbhoom; West Burdwan	Raneegunge	29·393	29·699	+·056	SSW	59·2	107·5	31st "	74·9	25th "	99·1	79·0	89·1	—0·3	86·0
	Moorshedabad	Berhampore	29·653	29·720	+ 030	SSW	114·0	103·2	31st "	76·3	25th "	97·1	78·9	88·0	+1·3	84·6
	Nuddea	Krishnaghur	29·686	29·752	+·073	WSW	163·4	105 8	31st "	74·8	25th "	99·2	79·2	89 2	+2·8	86 5
	Jessore; Khoolna	Jessore	29·712	29·745	+·041	Variable	74·8	106·8	31st "	76·4	25th "	97·1	79 8	88 5	+2 3	86 9
East Bengal.	Chittagong	Chittagong	29·703	29·792	+ 029	S	95·6	92·2	27th "	77·0	25th "	90 1	79 1	84 6	+2 0	84 9
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29·758	29 770	+ 053	S	105·2	94·8	29th, 30th May.	75·9	30th "	92·6	77 7	85·2	+0·9	86 6
	Noakholly	Noakholly	29·735	29·778	+·038	South-westerly.	118 2	92 5	29th "	74·8	30th "	90 5	77·5	84·1	+1·5	86·6
	Furreedpore	Furreedpore	29·719	29·758	+ 042	SW	143	94 5	28th, 29th May.	75·9	25th "	92·4	77 8	85·1	+1·8	84·4
	Dacca	Dacca	29·732	29·754	+·037	SSW, S	83·6	95·1	29th "	76·0	25th "	92·1	78·5	85·2	+1·0	84·7
	Commillah	Commillah	29·731	29 766	+·041	SE	?	94·3	29th "	75·8	25th, 26th May.	91·3	77 0	84·6	+0·9	85·6
	Mymensingh	Mymensingh	29·695	29·754	+·019	SSE	115 5	101·8	26th "	71·6	29th "	93·7	75·7	84·7	+3·0	82·9
North Bengal.	Bogra	Bogra	29·657	29·719	+·033	Variable	58·0	102 3	30th "	73 8	25th "	98·7	77·3	88 0	+3·2	87 0
	Pubna	Serajgunge	29·684	29·731	+ 023	S	93 7	95·1	29th, 30th May.	72·7	30th "	93·0	76 8	84·9	+1·5	84·[illegible]
	Rajshahye	Rampore Beauleah.	29·651	29·720	+·025	SSW	148·3	103·8	30th "	75·1	25th "	99·1	79 3	89·2	+4·2	86 [illegible]
	Maldah	Maldah	29·628	29·709	—	SW	50·5	100·2	31st "	?	?	97·4	?	?	?	85·[illegible]
	Dinagepore	Dinagepore	29·605	29·725	+ 058	SE	73	101·6	30th "	73·6	25th "	97·5	77·3	87 4	+3·8	84 [illegible]
	Rungpore	Rungpore	29·628	29 754	+ 005	Easterly	92·1	96 8	29th "	69 7	27th "	93·0	74 1	83·6	+2·4	82 [illegible]
	Julpigoree; Cooch Behar	Julpigoree	29·419	29·737	— 018	E	282 1	95 5	28th "	64 9	25th "	91 9	70·5	81·2	+1·2	81[illegible]
	Darjeeling Hill Tracts	Darjeeling	23·949	—	+·011	Calm	222	65·6	28th, 30th, 31st May.	50·6	25th "	63 9	53·0	58·5	+0·3	58[illegible]
North Behar.	Purneah; North Bhagulpore	Purneah	29·597	29·792	+·037	Calm & ENE	175	101·3	31st "	74·9	25th "	96·2	77·6	86·9	+1·7	86[illegible]
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga	29·545	29·711	+·033	ENE	114	104·9	31st May	78·8	25th, 27th May.	98 0	81·2	89 6	+3·0	87[illegible]
	Chumparun	Motihari	29·489	29·717	+·051	ESE	176	105 8	31st "	68·8	20th "	97·9	74·1	86·0	0	84[illegible]
	Sarun	Chupra	29·502	29 695	+·036	E	78·2	110·2	31st "	78 1	26th "	102·1	79·9	91·0	+2 1	8[illegible]
South Behar.	Shahabad	Dehree	29·357	29 706	+·070	SSW	168·5	109 9	31st "	71·0	26th "	103·0	75·0	89·0	—1·0	[illegible]
		Buxar	29·457	29·697	+ 053	W	122 2	108·4	31st "	78·2	27th "	100·1	81·4	90·8	+0·1	[illegible]
		Arrah	29·518	29·714	+ 071	Calm	29·2*	108·4	31st "	76·6	27th "	101·2	80 0	90 6	+2 0	[illegible]
	Gya	Gya	29·340	29 712	+·006	Variable	101·1	110·6	31st "	80·3	26th "	103 3	83 2	93 3	+1·7	[illegible]
	Patna	Bankipore	29·520	29·703	+·040	Variable	61 2	108·6	31st "	76·2	26th, 27th May.	99 9	78 8	89·4	—4 1	[illegible]
	South Bhagulpore; Monghyr	Bhagulpore	29·529	29·691	+·035	Variable	96	106·3	31st "	76·0	25th "	98 4	79 1	88·8	+2·1	[illegible]
	Sonthal Pergunnahs	Doomka	29·205	29 698	+·033	Variable	166·3	106·3	31st "	75 8	28th "	98·1	79·5	88·8	+1·0	[illegible]
Chota Nagpore.	Hazaribagh	Hazaribagh	27·739	29·715	+ 060	SSW	172·2	104 0	31st "	69·2	25th "	97·0	75·8	86 4	+0 1	[illegible]
	Lohardugga; Manbhoom	Ranchee	27·628	29 726	+·065	Variable	134·3	103 5	31st "	68·4	26th "	95 9	75·5	85·7	+0·3	[illegible]
	Singbhoom	Chyebassa	28·967	29·724	+·092	S	68·5	109·3	31st "	76·3	26th "	101·9	80·4	91·2	—0·1	[illegible]
Assam.	Assam	Sibsagar	29·441	29·785	+·003	NE		92·1	27th "	73·5	31st "	88·3	75·1	81·5	+0·6	[illegible]
		Dhubri	29·671	29·749	+·044	Calm, ENE	141·8	93·7	30th "	72·8	25th "	90 3	76·1	83 2	+2·4	[illegible]
		Silchar	29·694	29·803	+·034	Calm	48·8	91·5	28th "	73·3	25th "	88 5	74·8	81·7	—0·4	[illegible]

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten-yea[rs] ... The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb[ers] ... are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past ... which at least hundredth of an inch fell.

[F]or the week ending Friday, the 31st of May 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week	Rainfall of week at observing station.	District Observations. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
85	5·3	Nil		0·96		3·02			1·72			1·6	Pooree	Pooree	Orissa.
78	1·3	0·04											Gopalpore		
90	5·7	0·72											False Point		
74	4·3	0·69		1·30		3·55			2·09			2·1	Cuttack	Cuttack	
84	0·4	1·46		1·45		4·76			2·54			2·1	Balasore	Balasore	
80	5·4	Nil	0·33	1·31	3·00	4·80	−1·80	3·00	2·27	+0·73	1·0	2·4	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
76	1·3	0·13	0·25	1·29	2·68	5·19	−2·51	2·52	2·13	+0·39	1·3	2·3	Midnapore	Midnapore	
81	2·4	0·87	0·35	1·58	2·10	5·67	−3·57	2·05	2·63	−0·58	1·2	2·8	Calcutta	24-Pergunnahs; Howrah; Hooghly	
72	0	0·55	0·18	1·55	2·99	5·05	−2·06	2·99	2·62	+0·37	0·7	2·2	Burdwan	Burdwan	
75	2·1	1·10	0·77	1·38	3·21	3·01	−0·70	3·07	2·07	+1·00	1·8	2·4	Bankoora	Bankoora	
72	1·4	1·02	0·49	1·25	4·29	3·41	+0·88	4·29	1·98	+2·31	1·5	2·3	Raneegunge	Beerbhoom; West Burdwan	
80	1·4	0·12	0·06	1·97	5·15	5·27	−0·12	4·87	3·11	+1·76	0·5	2·6	Berhampore	Moorshedabad	
72	1·6	Nil	Nil	1·99	2·34	6·37	−4·03	1·54	3·52	−1·98	0·0	2·6	Krishnaghur	Nuddea	
81	1·7	1·09	0·83	1·86	2·02	6·79	−4·77	1·58	3·28	−1·70	2·1	2·8	Jessore	Jessore; Khoolna	
79	6·3	0·77		2·52		10·00			5·25			3·1	Chittagong	Chittagong	East Bengal.
				1·87		9·53			4·27			3·4	Demagiri	Chittagong Hill Tracts	
83	4·7	1·60	1·52	1·97	3·63	7·66	−4·03	3·59	3·88	−0·29	2·8	3·1	Barrisal	Backergunge	
79	6·0	2·81	1·84	2·30	5·52	10·40	−4·88	4·40	4·75	−0·35	3·5	3·2	Noakholly	Noakholly	
84	3·1	0·16	1·52	2·31	4·56	8·59	−4·03	2·74	4·33	−1·59	2·3	2·5	Furreedpore	Furreedpore	
85	7·4	0·55	2·35	2·34	8·42	8·72	−0·30	5·65	3·90	+1·73	2·8	3·1	Dacca	Dacca	
82	2·7	1·02	1·22	2·41	6·16	10·26	−4·10	3·27	4·27	−1·00	2·5	3·4	Commillah	Tipperah	
82	5·3	1·94	2·09	2·52	8·32	9·77	−1·45	5·04	4·95	+0·09	3·6	3·3	Mymensingh	Mymensingh	
71	1·4	0·22	0·77	2·70	2·32	7·79	−5·47	1·76	4·56	−2·80	2·5	3·1	Bogra	Bogra	North Bengal.
83	3·3	1·07	0·50	1·99	5·94	7·11	−1·17	3·79	3·83	−0·04	1·5	2·5	Serajgunge	Pubna	
71	0·6	Nil	0·01	2·27	1·20	6·18	−4·08	0·76	3·71	−2·95	0·3	2·5	Rampore Beauleah	Rajshahye	
74	0	Nil	Nil	1·32	0·70	4·50	−3·80	0·70	2·83	−2·1[illegible]	0·0	2·2	Maldah	Maldah	
76	4·1	1·09	0·20	2·95	0·73	6·45	−5·72	0·73	4·39	−3·66	0·8	3·0	Dinagepore	Dinagepore	
80	4·3	1·19	0·65	3·54	3·87	11·23	−7·36	3·55	7·40	−3·85	2·0	3·2	Rungpore	Rungpore	
82	1·0	1·39	0·60	4·55	8·17	13·40	−5·23	6·13	8·93	−2·80	1·4	3·9	Julpigoree	Julpigoree; Cooch Behar	
92	7·1	0·86	2·08	3·72	8·07	11·09	−3·02	5·45	6·86	−1·41	4·3	4·4	Darjeeling	Darjeeling Hill Tracts	
73	0·3	0·83	0·18	1·70	2·00	4·94	−2·94	2·00	3·05	−1·05	0·2	1·7	Purneah	Purneah; North Bhagulpore	North Behar.
			0·21	0·79	0·66	2·46	−1·80	0·66	1·36	−0·70	1·7	1·2	Mozufferpore	Mozufferpore	
62	1·1	Nil	0·96	0·79	1·52	2·63	−1·11	1·52	1·39	+0·13	0·7	1·0	Durbhunga	Durbhunga	
66	1·0	0·23	0·30	0·75	0·90	2·59	−1·69	0·90	1·35	−0·45	1·0	1·4	Motihari	Chumparun	
51	1·9	0·04	0·70	0·76	1·13	2·02	−0·89	1·13	1·09	+0·04	1·3	1·0	Chupra	Sarun	
43	1·1	0·07											Dehree		South Behar.
45	2·4	Drops	0·13	0·70	0·35	1·36	−1·01	0·35	0·90	−0·55	0·6	0·5	Buxar	Shahabad	
56	2·4	0·47											Arrah		
51	3·9	Drops	0·10	0·61	0·34	1·76	−1·42	0·34	1·37	−1·03	1·0	1·0	Gya	Gya	
61	2·7	0·95	0·27	0·79	2·05	2·09	−0·04	2·05	1·43	+0·62	0·8	1·1	Bankipore	Patna	
68	1·7	0·23	0·20	0·85	1·63	2·45	−0·82	1·63	1·61	+0·02	1·0	1·1	Bhagulpore	South Bhagulpore; Monghyr	
71	0·3	0·02	0·45	1·46	2·35	3·84	−1·49	2·31	3·43	−1·12	0·7	1·8	Doomka	Sonthal Pergunnahs	
50	1·6	0·38		1·17		2·54			1·57			1·7	Hazaribagh	Hazaribagh	Chota Nagpore.
56	2·1	0·52	0·69	1·31	1·04	2·49	−1·45	1·04	1·84	−0·80	1·7	2·1	Ranchi	Lohardugga	
			1·29	0·77	1·71	2·77	−1·06	1·70	1·66	+0·04	2·0	1·8	Ranchi	Maunbhoom	
63	2·4	0·09	Nil	1·46	1·96	4·17	−2·21	1·96	2·57	−0·61	0·0	2·3	Chyebassa	Singbhoom	
90	9·3	0·73											Sibsagar	Assam	Assam.
88	4·1	0·25											Dhubri		
92	8·1	9·31											Silchar		

[...] variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
[...] cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means [...]. The means of the districts are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional [...]

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of May 1889.

Meteorological division.	District.	Station.	Saturday, 25th May 1889.	Sunday, 26th May.	Monday, 27th May.	Tuesday, 28th May.	Wednesday, 29th May.	Thursday, 30th May.	Friday, 31st May.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA ..	Pooree ..	Pooree ...	...	...	...	...	...	...	...	Nil	Nil	1·06	2·58	1·06	1·47
		Khurdah ...	0·09	...	0·53	...	...	...	...	2	0·62	1·21	3·51	1·21	2·11
		Banpur ...	1·00										2·15		0·86
		False Point ..	...	...	0·08	0·02	...	...	...	2	0·10	1·13	3·84	1·13	2·40
		Gop ...											?		?
		Pipli ...											?		?
	Cuttack	Jagatsingpore	0·23	0·43	0·84	...	...	...	...	3	1·50	2·11	2·09	2·11	1·42
		Banki ..			0·07								2·16		1·65
		Cuttack ...	0·73	0·02	...	0·07	...	...	...	3	0·82	3·20	4·20	3·20	2·81
		Kendrapara ...	1·12	0·77	...	0·20	...	...	...	3	2·09	2·82	3·91	2·82	3·02
		Jaipore ...	0·58	0·76	...	0·34	2·13	0·10	...	5	3·91	4·82	4·49	4·46	2·53
		Dharmsala ...	0·20	...	0·30	1·40	...	...	...	3	1·90	2·40	?	2·40	?
		Salipore ...	0·12	0·75									?		?
	Balasore ..	Chandbali ...	...	0·47	...	...	0·46	...	...	2	0·93	3·43	4·09	3·43	2·45
		Bhuddruck ...	...	0·25	...	0·39	0·04	0·20	...	4	0·88	5·56	5·16	5·08	3·04
		Sorah ...	1·20	0·40	1·00	0·10	...	...	...	4	2·70	5·01	5·09	4·96	3·07
		Balasore ..	0·24	0·84	0·40	...	0·07	...	...	4	1·55	4·45	4·97	3·22	2·81
		Jellasore ..											3·37		1·72
		Baripodah ...											4·97		2·14
SOUTH-WEST BENGAL.	Midnapore ..	Contai ..	...	0·32	...	...	...	...	...	1	0·32	1·77	4·57	1·77	2·14
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	2·13	4·09	2·13	2·43
		Tumlook .	...	0·30	...	...	0·10	...	...	2	0·40	1·70	5·07	1·70	2·42
		Midnapore ..	...	0·13	...	...	...	...	...	1	0·13	2·64	5·13	2·49	1·98
		Ghattal ..	...	0·21	...	...	...	...	...	1	0·21	3·65	5·38	3·38	1·98
		Kukrahaty ..	...	1·58	...	...	...	...	...	1	1·58	4·34	?	4·34	?
		Heria ..	...	1·55	...	...	...	...	...	1	1·55	5·48	?	5·48	?
		Bhagwanpore	...	2·65	...	...	...	...	...	1	2·65	4·67	?	4·67	?
		Garbetta ..											?		?
	24-Pergunnahs	Diamond Harbour	0·43	0·23	...	...	...	...	...	2	0·66	5·08	5·16	5·08	2·25
		Canning Town	...	0·33	...	...	...	...	...	1	0·33	2·85	...	2·85	?
		Alipore Jail ..	...	0·18	...	...	0·91	...	...	2	1·09	3·92	5·42	3·92	2·44
		Barrackpore ...	...	...	...	...	...	...	...	Nil	Nil	1·62	5·34	1·62	2·23
		Dum-Dum ..	...	0·15	...	...	1·00	...	...	2	1·15	2·42	5·93	2·12	2·86
		Baraset ..	0·11	0·03	...	...	...	...	...	2	0·14	2·12	[illegible]	2·04	2·77
		Buseerhat ...	...	...	...	...	...	...	...	Nil	Nil	1·80	6·66	1·80	3·73
	Howrah ...	Howrah .	0·07	...	...	0·43	...	...	...	2	0·50	2·19	5·16	2·14	2·19
		Mohesreka (Ooloberiah.)	...	0·33	...	...	0·18	...	...	2	0·51	1·61	6·25	1·61	2·58
	Hooghly .	Serampore ...	...	0·05	...	...	...	...	...	1	0·05	1·99	4·98	1·98	2·10
		Hooghly ..	...	...	...	...	...	...	...	Nil	Nil	1·79	5·77	1·39	2·69
		Johanabad ..	...	0·05	...	...	...	...	...	1	0·05	1·58	5·17	1·53	2·75
	Burdwan ..	Culna .	...	...	...	...	...	...	...	Nil	Nil	2·72	4·86	2·72	2·21
		Burdwan ..	...	0·38	...	0·17	...	...	...	2	0·55	4·33	4·98	4·36	2·82
		Cutwa ..	...	...	...	...	...	...	...	Nil	Nil	1·90	5·31	1·90	2·87
		Raneegunge	...	0·44	0·05	0·53	...	...	...	3	1·02	5·02	3·18	5·02	2·01
		Mankur ..	...	...	...	1·23	...	...	...	1	1·23	4·03	?	4·03	?
	Bankoora ..	Bankoora ..	...	0·53	0·55	...	...	...	...	2	1·08	3·80	3·87	3·80	2·24
		Bishenpore ...	...	...	0·44	...	...	...	...	1	0·44	3·18	4·97	3·18	2·24
		Maliara .	0·27	0·01	0·85	...	...	...	...	3	1·13	2·67	3·31	2·10	1·83
		Khatra ..	...	...	0·39	...	...	...	...	1	0·39	3·19	3·47	3·19	1·93
		Indas ..	...	1·40	...	...	...	...	...	1	1·40	4·73	?	3·80	?
		Kotalpore ..	...	0·56	...	...	...	...	...	1	0·56	2·19	?	2·19	?
		Ania	...	0·30	...	...	...	...	...	1	0·30	0·93	?	0·85	?
		Gangajalghati	...	0·15	0·62	...	...	...	...	2	0·77	3·06	?	3·06	?
		Raipore ..	...	...	...	...	...	...	...	Nil	Nil	1·42	?	1·42	?
		Sonamukhi ..	...	0·05	0·03	...	...	...	...	2	0·08	4·95	?	4·95	?
	Beerbhoom .	Bh. Soory ...	...	...	...	0·72	...	...	...	1	0·72	3·90	3·72	3·90	2·21
		Hetampore ..	...	...	0·18	...	...	...	...	1	0·18	5·30	3·05	5·30	1·1
		Rampore Haut	...	...	...	0·02	...	...	...	1	0·02	2·92	3·67	2·92	2·00
		Rolpore ..	...	...	0·04	1·37	...	...	...	2	1·41	3·85	?	3·85	?
		Murarai .	...	...	...	...	...	...	...	Nil	Nil	3·86	?	3·66	?
	Nuddea ..	Ranaghat ..	...	...	...	...	...	...	...	Nil	Nil	2·17	5·26	2·08	2·88
		Kishnaghur ...	...	...	...	...	...	...	...	Nil	Nil	1·51	5·84	1·51	2·88
		Choondanga .	...	...	...	...	...	...	...	Nil	Nil	1·95	7·74	1·30	4·47
		Meherpore ...	...	...	...	...	...	...	...	Nil	Nil	3·21	5·82	1·29	3·26
		Kooshtea ..	...	...	...	...	...	...	...	Nil	Nil	2·83	7·19	1·48	4·13
	Khoolna ..	Satkhira ..	0·35	...	...	...	...	...	...	1	0·35	1·46	6·28	1·05	2·09
		Bagirhat ...	...	...	...	...	...	...	...	Nil	Nil	0·79	6·94	0·79	3·28
		Khoolna ...	...	...	...	...	...	...	...	Nil	Nil	0·44	6·62	0·44	2·76
	Jessore ..	Narail ...	0·14	0·13	1·34	0·10	...	0·36	0·20	6	2·27	3·19	6·79	3·19	2·94
		Jessore ...	0·93	...	0·06	...	0·08	0·02	...	4	1·09	2·14	7·35	2·06	3·46
		Jhenidah ...	...	...	...	...	...	0·78		1	0·78	3·07	6·53	0·97	3·56
		Magoorah ...	0·07	0·94	0·38	...	...	...	0·55	4	1·94	3·79	7·95	2·80	4·15
		Bongong ..	0·20	...	...	...	...	...	...	1	0·20	1·23	5·88	1·23	3·05
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	Nil	Nil	4·82	4·55	4·82	2·59
		Berhampore ...	...	...	0·12	...	...	...	...	1	0·12	7·74	5·54	7·50	3·13
		Lalbagh ...	...	...	0·07	...	...	...	...	1	0·07	5·39	5·71	5·30	3·28
		Azimgunge ...	...	...	0·19	...	...	...	...	1	0·19	4·89	5·25	4·33	3·34
		Jungipore ..	...	...	...	...	...	...	...	Nil	Nil	3·29	5·00	2·90	3·03
		Lalgola ...	...	...	...	...	...	...	...	Nil	Nil	4·75	5·55	4·30	3·30
		Jiagunge ...	...	...	0·75	0·04	...	...	...	2	0·79	4·86	?	4·24	?
		Akhrigunj ...	...	...	...	...	...	...		Nil	Nil	2·73	?	2·63	?
		Patkabari ...	...	...	...	...	...	...	...	Nil	Nil	3·98	?	1·08	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	...	...	0·14								10·86		5·45
		Chittagong ...	0·02	...	0·09	0·15	0·52	...	...	4	0·77	4·90	9·63	1·87	5·05
		Kutubdia ...	...	0·11	...	0·22							?		?
		Satkanya ...	...	...	...	...	...	0·13	...	1	0·13	3·35	?	1·19	?
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	0·44	...	...	1	0·44	0·03	10·13	4·03	4·50
		Ruma ...											8·93		4·04
	Backergunge	Patuakhally ..	...	0·17	1·50	...	1·05	0·14	...	4	2·86	5·38	8·28	5·38	4·47
		Perozepore ..	0·26	...	...	0·18	...	...	...	2	0·44	2·31	7·10	2·31	3·33
		Burrisal ..	1·56	0·02	0·13	...	...	0·19	...	4	1·90	2·95	8·03	2·91	4·16
		Bhola ..	...	...	0·89	...	...	...	...	1	0·89	[illegible]	7·24	3·72	3·51

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of May 1889—*contd.*

Meteorological Division.	District.	Station.	Saturday 25th May 1889.	Sunday, 26th May.	Monday, 27th May.	Tuesday, 28th May.	Wednesday, 29th May.	Thursday, 30th May.	Friday, 31st May.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			RAINFALL							TOTAL					
EAST BENGAL—*concld.*		*Gournaddi*	...	...	1·72	...	0·50	0·75	...	3	2·97	2·97	?	2·97	?
		Bauphala	0·35	...	...	...	...	1·00	...	2	1·35	3·04	?	1·09	?
	Noakholly	Noakholly	0·13	...	0·68	...	0·14	1·87	...	4	2·82	6·07	9·82	5·29	4·66
		Fenny	0·15	...	...	...	0·10	0·61	...	3	0·85	4·95	10·97	3·50	4·82
		Harishpore	...	...	1·50	0·45							?		?
		Ramganj	0·82	...	...	0·06	...	...	...	2	0·88	2·25	?	1·28	?
	Furreedpore	Madaripore	0·64	0·35	...	...	0·40	1·20	...	4	2·59	3·34	9·24	2·80	4·23
		Furreedpore	...	...	...	...	0·10	...	...	1	0·10	2·92	8·90	1·82	5·00
		Goalundo	...	...	...	...	...	1·74	0·14	2	1·88	7·53	7·03	3·50	3·72
	Dacca	Munshigunge	...	1·00	...	...	0·78	0·97	...	3	2·75	8·42	9·43	5·76	4·31
		Dacca	...	...	...	...	0·74	0·04	...	2	0·78	6·98	8·95	8·95	4·31
		Naraingunge	...	2·18	...	...	1·09	1·02	...	3	4·29	11·06	7·63	7·12	3·03
		Manickgunge	0·20	...	...	...	0·52	0·87	...	3	1·59	7·24	8·85	5·09	4·03
		Joydebpore	...	0·17	0·58	...	0·61	...	...	3	1·36	10·77	?	3·51	?
	Hill Tipperah	Agartola	...	...	...	...	1·18	...	...	1	1·18	7·78	10·74	3·31	4·36
	Tipperah	Comilla	...	...	...	...	0·95	0·05	...	2	1·00	7·23	10·3[illegible]	3·84	4·55
		Chandpore	0·40	...	0·40	...	0·60	0·50	...	4	1·90	8·65	9·12	2·55	3·30
		Brahmunberia	...	0·13	...	...	0·07	0·61	...	3	0·81	6·00	10·81	3·08	4·85
		Ramchandrapore.	...	...	...	...	...	...	...	Nil	Nil	4·83	?	3·27	?
		Nasirnagar	...	...	...	...	...	...	...	Nil	Nil	7·85	?	4·05	?
		Daudkandi	0·25	...	...	...	0·40	...	...	2	0·65	6·50	?	3·55	?
		Kasba	0·73	...	...	...	0·25	...	...	2	0·98	6·29	?	4·02	?
		Laksham	...	...	...	...	...	...	...	Nil	Nil	1·70	?	1·70	?
	Mymensingh	Kishoregunge	0·13	...	...	...	0·47	0·21	...	3	0·81	6·93	10·19	3·37	4·91
		Atia (*Tangail*)	...	...	...	...	0·91	1·48	0·42	3	2·81	12·96	7·01	6·44	3·50
		Mymensingh	0·09	...	...	1·60	...	0·08	...	3	1·77	7·34	11·03	4·96	5·99
		Jamalpore	0·39	...	...	0·73	0·24	0·17	...	4	1·73	4·83	8·79	3·72	4·17
		Netrokona	0·15	...	0·32	2·05	0·02	0·48	...	5	3·02	9·53	11·70	6·70	6·10
		Subornakhali	...	...	...	...	...	...	0·33	1	0·33	4·20	?	3·01	?
		Durgapore	1·00	...	...	0·75	0·50	0·09	...	4	2·34	11·41	?	8·79	?
		Sherepore Town	...	...	1·27	...	0·08	0·10	...	3	1·45	4·74	?	3·12	?
		Dewanganj	...	...	...	...	...	...	...	Nil	Nil	1·10	?	0·30	?
NORTH BENGAL	Pubna	Pubna	...	...	...	...	...	...	...	Nil	Nil	3·64	6·95	[illegible]	3·66
		Serajgunge	...	...	...	0·16	...	0·53	0·31	3	1·00	8·24	7·27	7·30	4·00
	Bogra	Sherpore	0·12	...	0·35	...	...	...	...	2	0·47	2·68	8·18	1·94	5·0[illegible]
		Nowkhilla	...	...	0·64	...	0·04	0·95	0·34	4	1·97	4·77	6·92	3·40	3·73
		Bogra	0·12	...	0·16	...	...	...	0·06	3	0·34	1·15	8·37	0·99	4·85
		Panchbibi	0·25	...	...	...	...	...	...	1	0·25	0·66	7·40	0·60	4·60
	Rajshahye	Beauleah	...	...	...	...	...	...	...	Nil	Nil	2·28	5·44	1·21	3·10
		Nattore	...	0·02	...	...	...	...	...	1	0·02	0·56	6·82	0·32	3·57
		Naogaon	...	...	...	...	...	...	...	Nil	Nil	0·75	6·28	0·71	4·45
		Lalpore	...	...	...	...	...	...	...	Nil	Nil	0·90	?	0·45	?
		Manda	...	...	...	...	...	...	...	Nil	Nil	1·50	?	1·50	?
	Maldah	Maldah	...	...	...	...	...	...	...	Nil	Nil	1·28	4·13	1·23	2·51
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	0·13	4·86	0·13	3·1[illegible]
		Gajol	0·10	...	...	...	...	...	...	1	0·10	0·43	?	0·43	?
		Sibganj	...	...	0·06	0·09	...	...	...	2	0·15	2·50	?	2·5[illegible]	?
	Dinagepore	Mohadebpore	...	...	...	...	...	...	...	Nil	Nil	0·65	6·79	0·65	4·[illegible]
		Churamon	...	...	...	...	...	...	...	Nil	Nil	0·21	5·15	0·21	[illegible]
		Raigunge	...	...	...	...	...	...	...	Nil	Nil	0·10	6·23	0·10	3·74
		Dinagepore	0·61	...	...	0·30	...	...	...	2	0·91	1·03	7·22	1·03	5·48
		Balooghat	...	...	0·02	0·05	...	...	...	2	0·07	1·62	6·84	1·62	5·81
		Thakoorgaon	...	0·11	...	...	...	...	...	1	0·11	0·93	?	0·93	?
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	0·13	1·70	0·19	...	0·15	4	2·17	5·85	8·89	4·91	5·4[illegible]
		Rungpore	...	...	0·03	...	0·19	...	...	2	0·22	2·61	10·22	2·58	6·05
		Kurigram	...	...	...	...	...	0·15	0·07	2	0·22	5·90	13·78	4·77	8·[illegible]
		Bagdogra (*Nilphamari*)	...	...	...	...	...	...	...	Nil	Nil	1·93	12·03	1·95	8·81
		Ulipore	...	...	...	...	...	0·36	...	1	0·36	4·62	?	3·7[illegible]	?
	Julpigoree	Julpigoree	0·04	...	...	...	...	...	...	1	0·04	6·56	11·96	5·41	7·64
		Alipore Dooars	...	...	0·22	...	...	...	...	1	0·22	6·37	?	4·42	?
		Fallacotta	...	...	0·58	0·28	...	...	...	2	0·86	10·84	?	6·95	?
		Debiganj	...	...	0·05	...	...	...	...	1	0·05	3·64	?	2·48	?
		Bhagatpore (*Nagrakatta*).	...	...	1·44	0·18	0·22	0·81	...	4	2·65	10·89	?	8·02	?
	Cooch Behar	Dinhatta	...	...	...	...	...	...	0·14	1	0·14	9·01	14·45	6·86	9·97
		Cooch Behar	...	...	...	...	...	0·95	...	1	0·95	10·60	14·76	7·14	8·91
		Mekligunge	1·23	...	...	...	...	...	...	1	1·23	3·70	12·90	3·34	9·[illegible]
		Matabhanga	0·32	...	...	...	0·12	...	0·19	3	0·63	10·93	12·34	7·85	8·96
	Darjeeling Hill.	Buxa	...	0·06	0·37	0·56	3·30	1·36	0·87	6	6·52	17·70	20·33	11·43	13·00
		Siliguri	0·10	...	0·57	...	...	...	...	2	0·67	4·06	9·32	4·30	6·43
		Darjeeling	0·01	0·22	0·27	0·03	0·32	0·01	...	6	0·86	5·30	8·58	3·69	4·17
		Kalimpong	...	...	0·13	0·04	...	...	0·09	3	0·26	4·65	5·54	2·37	2·86
		Kurseong	...	0·18	0·81	0·18	1·00	0·82	0·14	6	4·30	8·45	?	2·95	?
NORTH BEHAR	Purneah	Kissengunge	...	...	...	...	...	...	...	Nil	Nil	3·18	6·32	3·18	4·07
		Arrareah	...	...	...	...	...	...	...	Nil	Nil	1·24	5·92	1·24	3·53
		Purneah	...	...	0·89	...	...	...	...	1	0·89	2·88	4·51	2·88	3·02
		Gondwara	...	...	...	...	...	...	...	Nil	Nil	1·50	?	1·50	?
		Balurampore	...	...	...	...	...	...	...	Nil	Nil	0·40	?	0·40	?
		Matsari	...	0·23	...	...	...	...	...	1	0·23	0·78	?	0·78	?
		Kaliaganj											?		?
	North Bhagulpore.	Madhipoora	...	...	...	...	...	...	...	Nil	Nil	1·65	4·06	1·65	2·30
		Soopool	...	...	...	...	...	...	...	Nil	Nil	1·04	3·89	1·04	2·18
		Protabganj	...	0·70	...	...	...	...	...	1	0·70	0·90	?	0·90	?
	Durbhunga	Tajpore	...	...	...	...	...	...	...	Nil	Nil	1·47	2·35	1·47	1·16
		Durbhunga	...	...	...	...	...	...	...	Nil	Nil	0·21	2·58	0·21	1·33
		Madhubani	2·85	...	0·04	...	...	...	...	2	2·89	2·89	2·96	2·89	1·68
		Bahera	0·62	...	...	...	...	...	...	1	0·62	0·92	?	0·92	?
		Roshera	...	...	...	...	...	...	...	Nil	Nil	0·90	?	0·90	?
	Mozufferpore	Sitamarhi	0·07	0·23	...	...	...	...	...	2	0·30	0·32	2·60	0·32	1·40
		Mozufferpore	...	...	0·15	...	...	...	...	1	0·15	0·45	2·72	0·45	1·43
		Hajipore	...	0·17	0·02	...	...	...	...	2	0·19	1·21	1·99	1·31	1·22
		Paru	...	0·60	...	...	...	...	...	1	0·60	0·60	?	0·60	?
		Manua	...	...	...	...	...	...	...	Nil	Nil	0·57	?	0·57	?
		Sheohar	0·20	...	...	...	...	...	...	1	0·20	0·20	?	0·20	?
		Pupri	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Chumparun	Motihari	...	0·25	...	...	...	...	...	1	0·25	0·52	2·50	0·52	1·44
		Bettiah	...	0·52	...	...	...	...	...	1	0·52	1·27	2·68	1·2[illegible]	1·27
		Bagaha	...	0·65	...	...	...	...	...	1	0·66	2·35	?	2·[illegible]	?
		Burhurwa	...	0·76	...	0·02	...	...	...	2	0·78	2·10	?	2·10	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of May 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 25th May 1889.	Sunday, 26th May.	Monday, 27th May.	Tuesday, 28th May.	Wednesday, 29th May.	Thursday, 30th May.	Friday, 31st May.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
NORTH BEHAR—concluded.	Sarun	Gopalgunge	0·67	...	0·57	...	...	...	...	2	1·24	2·01	2·71	2·01	1·14
		Sewan	...	...	...	0·76	...	...	...	1	0·76	[illegible]	1·84	1·11	1·16
		Chuprah	...	...	0·10	...	...	...	...	1	0·10	0·27	1·52	0·27	0·95
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	0·19	1·04	0·19	0·66
		Dehree	0·02	...	...	0·05	...	...	...	2	0·07	0·25	1·65	0·25	1·35
		Bhubooah	...	...	...	...	...	...	...	Nil	Nil	0·20	1·16	0·20	0·60
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	0·21	1·17	0·21	0·69
		Arrah	...	...	0·60	...	...	...	...	1	0·60	0·90	1·80	0·90	1·18
		Mohaniah	...		...	...	...	...	...	Nil	Nil	Nil	?	Nil	?
	Gya	Aurungabad	0·20	0·05	...	...	...	...	...	2	0·25	0·93	1·68	0·93	1·31
		Gya	...	...		...	...	...	...	Nil	Nil	Nil	1·64	Nil	1·39
		Nowadah	...	...	0·09		...	...	...	1	0·09	0·14	2·02	0·14	1·49
		Jehanabad	0·05	...	...	...	...	...	...	1	0·05	0·27	1·74	0·27	1·29
		Arwal	...	...	...	...		...	...	Nil	Nil	0·30	?	0·30	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	0·50	?	0·50	?
		Sherrghatti	...	...	...	...	...	...	...	Nil	Nil	0·25	?	0·25	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	0·10	?	0·10	?
		Pakri Barawa	...	...	...	...	...	...	...	Nil	Nil	1·70	?	1·70	?
	Patna	Patna	...	0·37	0·58	...	...	...	...	2	0·95	2·89	2·20	2·89	1·59
		Dinapore	0·12	...	...	...	...	...	...	1	0·12	0·74	1·69	0·74	1·24
		Behar	...	...	...	...	...	...	...	Nil	Nil	1·58	2·20	1·58	1·45
		Barh	...	...	...	...	...	...	...	Nil	Nil	2·96	2·26	2·96	1·43
		Bickram	...	...			...	...	...	Nil	Nil	0·60	?	0·60	?
		Hilsa	...	0·50	0·08	...	...	...	...	2	0·58	2·83	?	2·83	?
	Monghyr	Begooserai	...	0·83	...	...	...	...	...	1	0·83	2·51	2·29	2·51	1·46
		Monghyr	...	...	...		...	...	...	Nil	Nil	0·74	2·51	0·74	1·60
		Jamui	...	...	0·10	...	...	...	...	1	0·10	2·01	2·19	2·01	1·42
		Gogri	...	...		...	...	...	...	Nil	Nil	1·35	?	1·35	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	0·60	?	0·60	?
	South Bhagulpore	Bhagulpore	...	...	0·22	...	...	...	...	1	0·22	1·61	2·50	1·61	1·63
		Banka	...	...	0·02	0·20	...	...	...	2	0·22	1·27	2·03	1·27	1·86
		Kolgong	...	0·27	...	...	...	...	...	1	0·27	3·91	?	3·91	?
	Sonthal Pergunnahs	Rajmehal	...	...	1·13	...	...	...	...	1	1·13	1·65	5·05	1·65	2·90
		Godda	...	...	...	...	...	...	...	Nil	Nil	4·90	3·60	4·90	2·43
		Pakour	...	...		...	...	...	...	Nil	Nil	2·25	4·41	2·03	3·07
		Nya Doomka	...	...	0·02	1·11	...	...		2	1·13	4·16	3·48	4·16	2·29
		Deoghur	...	...	0·46	...	...	...	...	1	0·46	0·57	3·15	0·57	1·96
		Jamtara	...	...	...	...	...	...		Nil	Nil	0·56	3·45	0·56	2·00
		Mohagama	...	...	...	...		...		Nil	Nil	1·05	-	1·05	?
		Nunihat	...	...	...	0·19	...	...	...	1	0·19	1·23	?	1·23	?
CHUTIA NAGPUR.	Hazaribagh	Pachamba (Giridih).	0·05	...	...	...	...	...	...	1	0·05	1·76	2·20	1·76	1·59
		Hazaribagh	0·14	0·12	0·10	0·02	...	...	...	4	0·38	0·83	2·34	0·83	1·55
		Semaguriah	...	0·33	0·58	...	...	...	...	?	0·91	1·15	2·72	1·15	1·51
		Manudi Hills											2·21		1·43
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	0·80	3·16	0·80	1·77
		Barhi	0·43		...	...	...	...	...	1	0·43	0·43	?	0·43	?
		Chatra	0·50	0·90	...	...				2	1·40	1·45	?	1·43	?
		Karagdeha	...	...	...	...	...		...	Nil	Nil	1·10	?	1·10	?
		Ramghur	...	...	...	...	...		...	Nil	Nil	Nil	?		?
	Lohardugga	Lohardugga	...	...	0·21	...	...	...	...	1	0·21	0·70	2·90	0·70	2·43
		Ranchi	0·03	0·39	0·01		...	...		3	0·43	0·72	3·17	0·27	2·03
		Palamow	...	1·43	...	...	...	...	...	1	1·43	1·69	1·41	1·69	1·07
		Silli	...	0·50	...	...	...	...		1	0·50	1·60	?	1·6[illegible]	?
		Balumat											?		?
		Hossenabad	...	...	...	...	...		...	Nil	Nil	0·31	?	0·31	?
		Garwah	...	0·65	...	...	...	...	...	1	0·65	0·65	?		?
	Singbhoom	Chyebassa		...	...	...	...	...	...	Nil	Nil	1·96	4·17	[illegible]	2·57
		Chakradharpore.	0·42	...	...	...	...	...	...	1	0·42	2·53	?	[illegible]	?
		Ghatsilla			...	...	...	...	...	Nil	Nil	0·95	?	0·95	?
		Banaragura.	...	...	...	...	...	...	...	Nil	Nil	1·97	?	1·97	?
	Manbhoom	Purulia	1·09	0·14	...	...	...		...	2	1·23	1·98	3·57	1·98	2·07
		Gobindpore	...	...	1·27	0·[illegible]	...	...	...	2	1·35	1·43	1·96	1·43	1·24
		Raghunathpore.	...	...	1·10	0·41	...	...	...	2	0·63	1·55	?	1·55	?
		Barrabhoom	...	...	0·06	...	...	...	...	1	0·06	2·39	?	2·39	?
		Jhalda	...	0·23	...	...	...		...	1	0·23	0·89	?	0·89	?
		Chas	...		...	...	...	...	...	Nil	Nil	0·29	?	0·29	?

Explanation.—... Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 4*th June* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE WEEK ENDING 31ST MAY 1889.

Though local showers have continued to fall throughout the week, weather conditions have been much more settled than previously, and have become of the usual hot-weather character. In consequence of the unsettled weather which was passing off at the end of the previous week, pressure at the beginning of the present one was rising somewhat rapidly; temperature was everywhere several degrees below the normal; humidity and cloud proportion continued high, and rain fell over the greater part of the province. Pressure continued very uniform for some days over the whole province, and light winds or calms prevailed. The rise of pressure lasted only two days, and a fall setting in on Monday continued till the end of the week, except on Wednesday, when a slight rise occurred everywhere. Temperature was rising on Saturday, and continued steadily to rise in all districts except Assam. On Monday temperature was in excess in Assam and at many stations in North, East and South-West Bengal, but was still about 2° in defect in Behar and Orissa. In consequence of the steady rise, high temperatures prevailed during the latter half of the week. With the rise of temperature, humidity and cloud began to diminish, more especially in the western districts, where dry hot weather prevailed from Wednesday till the end of the week. Though after the first two days pressure was generally falling, the uniform pressure did not continue, and winds in consequence increased in strength. This change began to set in on Tuesday, when the easterly element in the wind directions disappeared, and south-westerly winds extended as far as the centre of Behar. The showers after the first day or two were confined to the eastern districts, and especially to Assam. In South-West Bengal and Orissa nor'-westers occasionally occurred, and a rather severe storm passed over False Point on Wednesday; the wind velocity rising to 52 miles an hour. By the middle of the week rain had entirely ceased in Behar and Chutia Nagpur. The showers that have occurred during the week have been generally light, falls of over an inch being very exceptional.

Pressure.—Pressure changes have been generally small, and the more rapid ones occurred in Behar, Chutia Nagpur, and North Bengal during the first half of the week. On Friday there was a general rise of over a twentieth of an inch everywhere, and more than a tenth in Chutia Nagpur. The rise on the following day was not large, but pressure was everywhere in excess, especially at the western stations, where it amounted to more than ·1″. On Thursday pressure was generally in defect, though by very small amounts. The largest fall of the week occurred on that day, and varied from ·05 inch to ·1 inch. At the end of the week pressure was in excess at all stations in Orissa, and at a few in South-West Bengal; elsewhere there was defect, largest in North Bengal and Behar, and amounting at some stations to nearly a tenth of an inch. As stated above, pressure was very uniform in the early part of the week, the greatest difference not being much over a twentieth of an inch. This difference increased during the week, and on Friday amounted to about three twentieths. Mean pressure has been everywhere in excess, the largest being in Orissa, South-West Bengal, and Behar, where it varied from 05 inch to ·07 inch; elsewhere the excess has been generally small.

Temperature.—From being very low, temperature kept steadily rising, and by the end of the week was in all districts, except Assam, considerably above the normal. The largest defect on Saturday, the 25th, was nearly 7°, and the average defect about 3°. This defect continued in Behar till about the middle of the week, at which time there was excess elsewhere of from one to four degrees. It scarcely changed from this in the eastern districts, but on Thursday and Friday there was a large excess in Behar and Chutia Nagpur, and at some stations of North Bengal. At Rampore Beauleah it amounted to nearly 10°. Average temperature has been generally slightly in excess; in South Behar and Chutia Nagpur the excess, if any, has been slight; in Orissa and Assam it has been under one degree; in other districts it has been about 1·5°, except in North Bengal, where it amounts to nearly 3°.

Rainfall.—Light showers were fairly general in the early half of the week, but these entirely ceased in the western part of the province during the last three days. Only in exceptional cases did the amount of rain exceed one inch, and rain is therefore everywhere largely in defect of the normal. The largest falls were in Orissa and East Bengal, and exceeded one inch; elsewhere the average fall was under half an inch, except in Chutia Nagpur where it amounted to ·55 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 31st May 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	104·9	74·8	94·1	80·7	87·4	+0·6	1·14	1·26	−0·12	2·3	2·0	+0·3	2·98	3·89	2·65	2·17
South-West Bengal ...	108·6	74·6	97·6	79·8	88·7	+1·4	0·39	1·64	−1·25	1·2	2·6	−1·4	2·95	5·41	2·72	2·74
East Bengal	101·8	71·6	91·8	77·7	84·8	+1·6	1·55	2·30	−0·75	2·8	3·1	−0·3	6·19	9·27	3·89	4·40
North Bengal	103·8	64·9	95·5	75·9	85·7	+2·7	0·43	2·98	−2·55	1·3	3·0	−1·7	3·45	8·68	2·67	5·55
North Behar	110·2	68·8	98·5	78·2	88·4	+1·7	0·46	1·07	−0·61	0·9	1·3	−0·4	1·36	3·20	1·36	1·83
South Behar	110·6	71·0	100·6	79·6	90·1	+0·2	0·26	0·93	−0·67	0·7	1·2	−0·5	1·39	2·40	1·38	1·60
Chutia Nagpur	104·0*	68·4*	96·5*	75·7*	86·1*	+0·2*	0·55	1·15	−0·60	1·5	1·9	−0·4	1·21	2·72	1·21	1·75
Assam	93·7	72·8	89·0	75·3	82·2	+0·9										

* Chyebassa not included.

Meteorological Office, Bengal;
The 4th June 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 26th May to 1st June 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
May	26th	154·5	10·7	29·723	85·4	93·6	18·4	75·2	79·7	0·942	77·4	78	WSW, SSW and calm.	48	Nil	Partially cloudy, ⌓.
,,	27th	157·3	11·4	·696	87·6	94·5	15·3	79·2	81·7	1·003	79 3	78	SSW and calm ...	98	,,	Partially cloudy, ⌓, lr.
,,	28th	155·7	9·2	·670	86·1	96·7	17·6	79·1	80·2	0 956	77·9	77	SW and variable ...	142	0·72	Partially cloudy, o, g, p, K, t.
,,	29th	148·5	11·3	·672	87·5	93·7	18 5	75 2	82·0	1·023	79·9	79	SSW and SW ...	190	Nil	Chiefly clear.
,,	30th	148·7	10·2	·622	88·7	94·1	12·0	82·1	83·0	1·054	80·8	78	SSW and SW ...	244	,,	Partially cloudy.
,,	31st	147·7	9·9	·605	89·1	94·4	12·1	82·3	82·3	1 011	79·6	74	SW and SSW ...	291	,,	Chiefly clear.
June	1st	149·1	9·8	·632	89·1	94 5	11·5	83·0	80·3	0 913	76·5	66	SW and SSW ...	273	,,	Chiefly clear.

	Inches.
The mean pressure of the seven days	29·660
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·588
	Hours.
The total number of hours of bright sunshine	72·5
The maximum possible number of hours of sunshine	93·4
	°
The mean temperature of the seven days	87·6
The average temperature of the corresponding period for 24 years, S.-G.'s Office	86·5
The extreme variation of temperature	21·5
The maximum temperature	96·7
	Miles.
The highest velocity of the wind in one hour	20
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	5
	%
The mean relative humidity	76
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	75
	Inches
The total fall of rain from 26th May to 1st June 1889	0·72
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·45
The total fall from 1st January to 1st June 1889	8·38
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	9·76

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, lr. lighting reflection, K thunderstorm, ⌓ dew, t thunder.

A. Pedler,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 3rd June 1889.

Abstract of the Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, in the month of May 1889.

		Date.
	Inches.	
The mean pressure at 10 A.M. during the month	29·752	
	°	
The mean temperature during the month	88·0	
The highest temperature during the month	103·0	2nd.
The lowest temperature during the month	70·4	22nd.
The absolute range of temperature during the month	32·6	
The mean daily range of temperature during the month ...	16·7	
The greatest range of temperature in one day during the month ...	23·5	20th.
	%	
The mean 10 A.M. humidity during the month	69	
	Inches.	
The mean 10 A.M. vapour tension during the month	1·003	
The total rainfall of the month	5·20	
The greatest fall in 24 hours	3·13	21st.
	Days.	
The number of rainy days in the month	7	

A. PEDLER,
for Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 3rd June 1889.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 26th May to 1st June 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
1889.		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
May ..	26th ..	29·796	86·2	96·0	19·7	76·3	89·1	82·0	·998	79·2	73	0·10
"	27th ...	·772	88·2	96·5	16·7	79·8	90·6	82·5	1·003	79·3	70	......
" ...	28th ...	·738	88·3	97·5	18·5	79·0	92·4	82·0	·953	77·8	62	.. ..
" .	29th .	·755	85·9	95·5	19·3	76·2	91·6	84·5	1·090	81·9	74	0·41
" ...	30th ...	·679	89·[illegible]	96·0	13·7	82·3	92·2	84·5	1·082	81·7	72	...
" ...	31st ..	·675	89·4	96·0	13·2	82·8	92·6	83·5	1·026	80·0	67	......
June ...	1st ...	·693	89·7	95·8	12·2	83·6	92·4	83·3	1·018	79·8	67	. ..

	Inches.
The mean 10 A.M. pressure of the seven days	29·730
	°
The mean temperature of the seven days	88·1
The extreme variation of temperature	21·3
The maximum temperature	97·5
	%
The mean 10 A.M. relative humidity of the seven days	69
	Inches.
The total fall of rain from 26th May to 1st June 1889	0·54

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 3rd June 1889.

A. PEDLER,
For Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE mortuary returns of the districts in Bengal (excluding Kissenganj Police-station in Purneah, from which no return has yet been received) for the month of February 1889, furnish the following particulars :—

1. The deaths of 96,879 persons were registered among a population of 66,055,695, representing a death-rate of 17·52 per 1,000 per annum, against 23 04 per 1,000 in the preceding month, and 19 08 per 1,000 during the corresponding month of 1888, indicating, as compared with both the past periods, a large reduction in the registration of deaths.

2. The highest deaths-rates were returned from the following districts :—

Districts.	Ratio per *mille.*	*Districts.*	Ratio per *mille.*
Backerganj	27 84	Rungpore	24·84
Noakhali	27·00	Julpaiguri	24·60
Dinajpur	25·68	Birbhum	24·24

3. As compared with the casualties of the corresponding month of the past year, the mortality from fever had diminished considerably, the death-rate from injury was stationery, and there were no noticeable differences in fatal results from the other diseases; see figures given below :—

	Ratio per *mille* during—	
	February 1889.	February 1888.
Cholera	·84	·60
Small-pox	·12	·08
Fever	12·60	11·28
Bowel-complaints	·60	·72
Injury	·12	·12
Other causes	3·00	3·12

4. Cholera and fever caused the greatest loss of life in the following districts; the other diseases did not exhibit high mortality anywhere, excepting in Puri, where 13·20 per 1,000 of the population died from the maladies classed under the head of "Other causes":—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*
Backerganj	5·64	Dinajpur	23·52
Howrah	4 32	Rungpore	23·52
24-Pergunnahs	3·48	Julpaiguri	22·68
Balasore	3·00	Noakhali	21·72
Tipperah	2 88		
Murshidabad	2·40		
Midnapore	2·16		

5. Under the heads of *Sex*, *Class* and *Age*, the mortality of the month stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	19·32
Females	15·84
Ratio of male deaths to every 100 female deaths	120

According to Class.

	Ratio per *mille.*
Christians	11·28
Hindus	16·56
Mahomedans... ...	19·56
Buddhists	21·36
Other classes ...	16·32

According to Age.

	Ratio per *mille.*
Under 1 year ...	131 40
1 and under 5 years ...	13·92
5 „ 10 „ ...	6·60
10 „ 15 „ ...	6·72
15 „ 20 „ ...	11·04
20 „ 30 „ ...	11·64
30 „ 40 „ ...	14 04
40 „ 50 „ ...	19·08
50 „ 60 „ ...	27·24
60 years and upwards ...	49·44

The 4th June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of February 1889

1	2	3			4							5							6		7		8		9
Divisions.	Districts.	Population.			Mortality according to— Disease. Deaths from—							Ratio per 1,000 of population per annum							Comparison with previous periods.		Sex. Deaths among—		Ratio per 1,000 of population per annum		
		Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan	668,295	723,528	1,391,823	64	4	1,714	41	8	352	2,213	·48	·02	14·76	·24	·06	3·24	19 08	21·12	22 44	1,219	994	21·84	16·44	122
	Bankura	507,136	534,616	1,041,752	154	40	1,028	60	9	262	1 553	1·68	·36	11 76	·60	·09	3·00	17·88	18·84	17·76	865	688	20·40	15·36	125
	Birbhum	381,563	412,865	794,428	55	...	1,057	11	5	479	1,607	·74	......	15 96	·13	·07	7 20	24·24	25 80	29·16	859	748	27·00	24 72	114
	Midnapore	1,243,195	1,272,370	2,515,565	453	8	2,966	278	27	756	4,486	2·16	·03	14 04	1·20	·12	3·60	21·36	26 04	26·58	2,385	2,101	22 92	19·80	113
	Hughli	315,665	347,385	663,050	42	... ..	848	120	13	209	1,232	·72	. .	15 24	2 16	·12	3·72	22 20	26·40	25·08	666	566	25·20	19·44	117
	Serampore	174,366	177,589	351,955	25	..	316	77	5	113	536	·84	...	10·68	2·52	12	3·54	18 24	26·52	21·60	296	240	20·28	16·20	123
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	67		1,164	197	18	322	1,768	·72		13 68	2 28	·12	3·72	20 88	26·40	24·12	962	806	23·52	18·36	119
	Howrah	316,479	318,902	635,381	234	1	467	213	18	244	1,177	4·32	·01	8·76	3 96	·24	4·56	22·20	25·56	24·36	658	519	24·84	19·44	126
Presidency ..	24-Pergunnahs	975,430	894,429	1,869,859	551	8	1,9 6	271	46	453	3 245	3·48	04	12 24	1 68	24	2·88	20·76	24·96	23·04	1,879	1,366	23·04	18·24	137
	Nuddea	605,779	849,942	1,655,721	119	..	1,778	16	30	359	2,298	·72	.	12 84	·10	·21	2 52	16·56	24·24	21·12	1,246	1,052	18·48	14·76	118
	Jessore	959,271	980,101	1,939,375	163	.	2,682	10	32	243	3,130	·96	...	16 56	·06	·12	1 44	19 32	31·80	18·12	1,766	1,364	22·08	16·68	122
	Murshidabad	586,483	640,307	1,226,790	249	.	1,501	28	6	216	2,000	2·40		14·64	·24	·04	2·04	19·56	25·56	20·04	1,089	911	22·20	17·04	119
	Khulna	568,402	511 546	1,079,948	164	4	1,216	19	14	299	1,716	1 80	·03	13·44	12	·12	3·24	18 96	29·64	21·48	911	805	19 20	18·84	113
Rajshahye ...	Dinajpur	782,292	732,054	1,514,346	9	1	2,976	16	12	230	3,244	·06	·007	23·52	·12	·08	1 80	25·68	29·28	28·44	1,731	1,513	26·52	24·72	114
	Rajshahye	660,226	678,412	1,338,638	1	.	1,997	1	16	157	2,152	·008	. .	17 88	·008	·12	1 20	19·20	28·20	27·84	1,173	979	21·24	17·28	119
	Rungpore	1,067,701	1,030,263	2,097,964	5	. .	4,120	3	22	205	4,355	·02	.	23·52	01	·12	1·08	24·84	30·36	28·56	2,375	1,980	26·64	23·04	119
	Bogra	372,677	361,681	734,358	... .	. ...	1,024	1	16	214	1,254	..	.	16 68	·01	·24	3·48	20·40	27·48	23·88	661	593	21·24	19·56	111
	Pubna	648,311	663,417	1,311,728	5	. ..	1,763	6	14	74	1 862	·03	.	16 08	·04	·12	·60	16·92	25·32	25·56	1,028	834	18·96	15·00	123
	Darjiling	89 398	66,739	156,137	.. .	. .	206	29	6	40	281	..		15 72	2·16	·36	3·00	21·48	23 76	26·64	162	119	21·72	21·36	136
	Jalpaiguri	305,555	276,007	581,562	11	1	1,100	6	3	75	1,196	·12	·01	22 68	·14	·06	1·44	24·60	30 72	27·72	669	527	26·16	22·80	126
Dacca ...	Dacca	1,033,863	1,082,487	2,116,350	292	15	2,036	132	12	714	3,201	1 56	·08	11 52	·72	·06	3·96	18·12	25·44	16·68	1,722	1,479	19·92	16·32	116
	Faridpore	805,989	825,745	1,631,734	207	6	1,503	45	23	218	2,002	1·44	·03	11·04	·24	·12	1·56	14 64	22·44	13·80	1,157	845	17·16	12·24	136
	Backerganj	973,479	927,410	1,900,889	910	5	1 993	49	47	1,413	4,417	5 64	·02	12·48	·24	·24	8 88	27 84	34·68	26·64	2,304	2,113	23·32	27·24	109
	Mymensing	1,553,397	1,498,569	3,051,966	207	170	3,319	69	25	522	4,312	·72	·60	12 96	·24	·09	2·04	16·92	21·48	20·64	2,351	1,961	18·12	15·60	119
Chittagong ...	Chittagong	531,649	600,692	1,132,341	24	..	1,569	94	21	211	1,919	·24		16 56	·40	·12	2·16	20 28	25 68	21·12	1,016	903	22·92	18·00	112
	Noakhali	415,248	405,524	820,772	61	..	1,486	24	17	264	1,852	·84	. ...	21·72	·24	24	3 84	27 00	34·56	27·60	963	889	27·72	26·28	108
	Tipperah	770,895	748,445	1,519,338	372	30	1,668	78	10	765	2,923	2·88	·12	13 08	·60	·07	6·00	23 04	31·20	23·20	1,560	1,363	24·24	21·84	114
Patna ...	Patna	858,783	898,073	1,756,856	8	36	1,205	108	34	434	1,825	·04	·24	8·16	·72	·12	2·88	12·36	16·20	10·56	1,016	809	14·16	10·80	125
	Gya	1,043,441	1,081,241	2,124,682	8	28	1,879	20	55	328	2,318	·03	·12	10 56	·10	·24	1·80	13·08	19·20	12·84	1,227	1,091	14·04	12·00	112
	Shahabad	950 250	1,014,659	1,964,909	..	134	1,763	54	32	380	2,363	...	·72	10·68	·24	·12	2 28	14·40	21·36	11 52	1,329	1,034	16·68	12·12	128
	Mozufferpore	1,265 731	1,316,329	2,582,060	..	13	1,694	79	41	273	2,100		·06	7·80	·36	·12	1·20	9 72	12·00	6·60	1,158	942	10·80	8·52	122
	Durbhanga	1,295,788	1,337,659	2,633,447	1	35	2,053	97	16	176	2,378	·003	·12	9·24	·36	·07	·72	10·80	12·36	10·44	1,260	1,118	11·64	9·96	112
	Sarun	1,083,565	1,196,817	2,280,382	1	24	959	245	43	1,312	2,575	·004	·12	4 92	1·20	·12	6 84	13·44	14·52	11·40	1,404	1,171	15·48	11·76	119
	Chumparun	870,627	850,981	1,721,608	...	82	990	28	21	303	1,424	..	·48	6 84	·12	·12	2·04	9 84	13·68	11·88	782	642	10·68	9·00	121
Bhagulpore ...	Monghyr	969,124	1,000,650	1,969,774	1	1	2,150	20	59	532	2,763	·006	·006	13·08	·12	·24	3·24	16·80	22·08	18·72	1,477	1,286	18·24	15·36	114
	Bhagulpore	979,119	987,039	1,966,158	2	20	2,176	28	15	473	2,714	·01	·12	13 20	12	·08	2·88	16·56	21·36	16·68	1,483	1,231	18·12	15·12	120
	Purneah	937,080	911,607	1,848,687	125	.	3,075	12	11	76	3,299	·72	.	19·82	·07	·07	·48	21·36	27·96	21·36	1,875	1,424	24·00	18·72	131
	Maldah	346,998	363,450	710,448	.	.. .	919	1	3	71	994	..		15·48	·01	·04	1·08	16·68	27·95	23·16	531	463	18·36	15·24	114
	Sonthal Pergunnahs	785,330	782,763	1,568,093	..	2	1,225	21	4	169	1,421	..	·01	9·36	·12	·02	1 20	10 80	11·76	10·08	838	583	12·72	8·80	143
Orissa ...	Cuttack	877,702	917,363	1,795,065	58	27	947	230	35	719	2,016	·36	·12	6·24	1·44	·12	4·80	13·44	22·20	22·08	1,104	912	15·00	11·88	121
	Puri	446,609	441,878	888,487	10	84	186	164	19	991	1,444	·12	1·08	2 40	2 16	·24	13·20	19·44	27·00	22·56	781	663	20 88	18·00	117
	Balasore	461,461	483,819	945,280	240	42	595	348	13	558	1,796	3·00	·48	7 44	4·32	·12	7·08	22·68	29·64	25·08	957	839	24·84	20·76	114
Chota Nagpore ...	Hazaribagh	544,903	559,839	1,104,742	.....	4	1,243	20	29	180	1,476	... .	·03	13·44	·12	·24	1·92	15·96	24 96	19·92	820	656	28·00	14·04	144
	Lohardugga	796,657	812,587	1,609,244	....	... .	1 296	127	7	601	2,061	.. .	.....	9 60	·84	·04	4·44	15·12	19·56	16·92	1,130	901	16·92	13·20	125
	Singhbhum	226,681	227,094	453,775	5	. .	436	35	19	93	588	12	.. .	11 52	·84	·48	2·40	15·48	16·92	16 20	345	243	18·24	12·84	141
	Manbhum	525,328	532,900	1,058,228	18	12	912	65	12	172	1,191	·12	·12	10 32	·72	·12	1·92	13·44	14·88	15·84	705	486	16·08	10·92	145
	TOTAL FOR THE PROVINCE	[illegible]	[illegible]	[illegible]	4,844	537	69,943	3,397	[illegible]	16,928	96,879	·84	[illegible]	12 60	·60	·12	3 00	17 52	23·04	19·09	52,933	43,946	19·32	15·84	120

MORTALITY ACCORDING TO— Class.

Divisions.	Districts.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
BURDWAN	Burdwan	1	1,727	455	...	...	13·05	18·48	21·96	...	...
	Bankura	1	1,406	73	...	73	214·20	18·48	18·84	...	16·32
	Birbhum	...	1,329	265	...	13	...	25·80	19·44	...	10·68
	Midnapore	...	3,967	251	...	268	...	21·24	18·36	...	27·36
	Hughli	1	936	205	...	...	41·28	19·80	27·24	...	...
	Serampore	...	431	105	...	...	...	17·64	21·24	...	...
	Total (Hughli, including Serampore)	1	1,367	400	...	...	18·24	19·50	25·32	...	...
	Howrah	...	921	256	...	...	...	21·96	22·16	...	...
PRESIDENCY	24-Pergunnahs	27	2,093	1,125	...	...	23·16	21·72	19·20	...	...
	Nuddea	7	1,008	1,283	...	...	13·08	16·56	16·68	...	...
	Jessore	...	1,221	1,960	...	...	...	15·96	19·56	...	...
	Murshidabad	...	1,158	842	...	...	...	21·84	17·04	...	...
	Khulna	1	775	940	...	...	15·96	17·64	20·28	...	...
RAJSHAHYE	Dinajpur	...	1,490	1,751	...	3	...	24·84	26·40	...	25·08
	Rajshahye	...	414	1,728	...	...	...	17·16	19·80	...	...
	Rungpore	...	1,482	2,873	...	...	...	21·72	26·88	...	...
	Bogra	1	253	1,020	...	...	444·36	19·80	20·52	...	...
	Pubna	...	482	1,380	...	...	...	15·96	17·40	...	...
	Darjiling	1	250	11	17	2	6·60	23·04	16·08	10·80	37·44
	Jalpaiguri	...	667	504	...	25	...	21·72	28·92	...	66·35
DACCA	Dacca	7	1,391	1,803	...	...	9·48	19·44	17·28	...	...
	Faridpore	2	836	1,164	...	...	8·04	15·72	14·28	...	...
	Backerganj	5	1,239	3,182	...	...	16·08	23·52	31·08	...	...
	Mymensing	...	1,450	2,798	...	64	...	[illegible]	16·44	...	20·52
CHITTAGONG	Chittagong	1	449	1,344	125	...	11·28	19·56	20·04	27·72	...
	Noakhali	...	434	1,418	...	...	...	24·60	27·84	...	...
	Tipperah	...	551	1,972	...	...	...	22·12	[illegible]	...	...
PATNA	Patna	2	1,620	203	...	...	9·21	12·60	11·40	...	...
	Gya	...	2,158	560	...	...	...	12·96	13·32	...	...
	Shahabad	...	2,188	175	...	...	...	11·40	13·44	...	...
	Mozufferpore	1	1,901	198	...	...	32·16	9·96	7·44	...	...
	Durbhanga	1	2,119	258	...	...	30·84	10·92	9·96	...	...
	Sarun	...	2,284	201	...	...	...	13·56	12·96	...	...
	Chumparun	1	1,220	203	...	...	6·12	9·84	9·96	...	...
BHAGULPORE	Monghyr	2	2,513	[illegible]	...	6	[illegible]	16·92	15·48	...	9·96
	Bhagulpore	...	[illegible]	218	...	...	...	16·92	14·04	...	...
	Purneah	...	[illegible]	1,246	...	...	...	22·80	19·32	...	...
	Maldah	...	570	424	...	...	...	18·60	15·96	...	...
	Sonthal Pergunnahs	...	763	112	...	546	...	10·29	12·24	...	10·68
ORISSA	Cuttack	4	1,982	30	...	...	20·40	13·06	7·56	...	...
	Puri	...	1,435	9	...	...	...	15·68	7·68	...	...
	Balasore	1	1,765	26	...	10	14·64	23·04	10·08	...	24·60
CHOTA NAGPORE	Hazaribagh	...	1,247	113	...	116	...	[illegible]	18·72	...	18·96
	Lohardugga	28	859	93	...	1,051	9·24	11·76	14·40	...	20·64
	Singhbhum	...	583	5	...	...	...	15·60	25·68	...	...
	Manbhum	1	1,088	25	...	94	21·72	13·44	7·32	...	17·04
	TOTAL FOR THE PROVINCE	96	59,155	34,915	142	2,271	11·28	16·50	15·56	21·36	16·52

MORTALITY ACCORDING TO— Age. Deaths.

Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	379	106	96	90	119	324	307	264	178	368
Bankura	281	123	67	65	126	219	174	144	119	236
Birbhum	443	141	68	50	77	183	142	177	123	203
Midnapore	842	339	173	190	255	550	521	515	425	676
Hughli	213	78	37	41	68	213	154	153	112	161
Serampore	75	46	19	18	26	69	78	69	65	71
Total (Hughli, including Serampore)	288	124	55	59	94	282	232	222	177	232
Howrah	158	131	78	33	67	133	131	99	77	240
24-Pergunnahs	461	339	192	126	211	465	437	312	204	438
Nuddea	483	224	195	151	127	197	195	208	181	349
Jessore	452	372	278	163	152	355	398	285	230	385
Murshidabad	348	215	138	94	[illegible]	195	202	206	190	311
Khulna	337	196	117	55	78	201	173	141	119	363
Dinajpur	459	264	161	145	200	547	503	494	237	220
Rajshahye	333	158	178	118	166	290	329	237	137	197
Rungpore	453	317	201	210	302	636	708	601	358	519
Bogra	261	94	94	41	74	153	166	133	95	139
Pubna	213	242	215	122	132	210	207	142	119	230
Darjiling	21	33	12	25	11	45	41	31	27	32
Jalpaiguri	166	57	52	87	80	142	178	173	123	158
Dacca	603	329	239	130	151	313	343	278	205	624
Faridpore	207	193	143	108	103	204	223	211	175	345
Backerganj	1,088	530	333	178	158	453	393	347	305	602
Mymensing	495	488	291	181	274	564	540	410	347	726
Chittagong	248	201	54	68	85	196	211	212	187	427
Noakhali	467	270	195	51	53	165	156	131	145	303
Tipperah	725	285	163	117	136	346	238	210	225	454
Patna	401	177	62	54	35	151	161	211	221	347
Gya	430	280	98	47	49	164	208	280	303	479
Shahabad	418	211	112	62	60	220	246	284	319	431
Mozufferpore	222	243	115	70	91	204	264	271	305	355
Durbhanga	304	355	148	59	76	174	272	279	294	307
Sarun	471	280	90	63	56	177	236	245	298	644
Chumparun	181	149	58	35	47	145	155	190	188	246
Monghyr	722	325	92	63	58	149	175	204	272	645
Bhagulpore	545	259	162	105	76	307	349	304	259	357
Purneah	255	269	153	166	174	537	507	487	345	346
Maldah	136	120	90	51	38	123	124	100	59	156
Sonthal Pergunnahs	251	142	105	84	77	155	137	143	148	179
Cuttack	487	166	68	37	71	103	189	212	192	440
Puri	447	113	55	23	36	68	127	113	157	307
Balasore	533	151	76	56	88	161	193	140	136	252
Hazaribagh	280	164	65	46	33	106	185	159	192	268
Lohardugga	288	166	95	80	73	221	250	225	221	417
Singhbhum	54	42	55	20	23	61	95	77	76	106
Manbhum	201	143	61	12	62	143	[illegible]	105	157	144
TOTAL FOR THE PROVINCE	17,016	9,541	5,510	3,755	4,635	10,822	11,161	10,167	8,891	16,351

MORTALITY ACCORDING TO— Age. Ratio per 1,000 of population per annum.

Districts.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	144·48	9·60	6·12	7·08	11·64	15·24	16·56	20·76	21·96	55·44
Bankura	122·64	12·12	5·28	7·20	15·96	14·52	14·16	24·96	22·92	50·76
Birbhum	318·48	21·12	8·04	7·44	13·80	16·08	13·80	24·48	25·44	53·68
Midnapore	161·52	14·76	5·88	9·12	13·32	13·80	17·04	26·28	35·64	59·16
Hughli	136·60	15·84	6·84	7·92	15·56	19·68	17·28	24·24	28·08	52·20
Serampore	89·76	17·28	6·72	7·68	9·84	11·64	16·08	20·16	30·84	43·68
Total (Hughli, including Serampore)	128·04	16·32	6·72	7·56	13·36	16·92	16·80	22·80	29·04	49·32
Howrah	121·08	22·16	12·00	6·36	14·04	13·08	10·68	19·44	24·60	74·16
24-Pergunnahs	114·60	19·56	9·48	8·64	16·68	15·84	18·36	20·16	28·56	46·20
Nuddea	152·04	13·44	9·36	10·44	12·48	8·52	10·20	15·00	20·16	38·88
Jessore	105·24	19·44	11·52	9·96	14·76	14·16	18·00	16·56	21·96	39·00
Murshidabad	149·88	18·24	9·12	9·24	12·24	11·40	13·80	19·92	29·52	48·00
Khulna	134·52	17·40	9·12	6·00	9·72	13·60	14·40	16·68	23·04	58·20
Dinajpur	157·32	18·12	8·76	11·64	20·52	25·44	28·88	33·00	35·52	51·60
Rajshahye	127·44	11·64	9·84	10·56	19·08	15·48	29·52	22·20	23·04	33·60
Rungpore	112·20	15·60	7·56	11·88	23·40	21·36	28·40	33·72	34·06	57·36
Bogra	203·52	11·64	9·24	7·56	14·88	14·64	18·96	24·36	31·20	45·00
Pubna	70·56	16·08	13·92	11·52	16·68	12·36	13·68	13·92	19·44	51·68
Darjiling	80·64	24·36	7·68	19·08	9·96	15·48	20·64	27·24	44·76	56·20
Jalpaiguri	123·36	15·12	7·08	7·20	23·04	17·64	25·08	35·28	43·56	58·80
Dacca	124·24	13·56	7·80	6·84	11·16	11·28	14·52	17·76	21·84	56·40
Faridpore	87·96	10·80	7·08	7·44	10·20	9·12	10·38	16·20	21·36	42·24
Backerganj	279·36	25·44	14·88	10·92	13·68	15·84	18·12	24·36	33·84	72·96
Mymensing	77·80	14·28	6·96	7·08	13·20	13·20	15·48	16·60	26·64	51·00
Chittagong	90·90	16·32	5·28	6·00	10·56	13·32	18·36	26·16	33·24	83·04
Noakhali	240·72	29·52	9·48	6·84	9·12	15·12	17·64	22·44	37·56	84·60
Tipperah	248·4[illegible]	16·44	8·16	8·52	14·64	16·56	14·16	18·84	32·64	68·76
Patna	116·16	9·96	3·12	3·84	3·60	6·24	7·44	13·56	21·12	32·28
Gya	120·60	12·00	3·96	2·64	4·20	5·52	7·44	13·80	25·44	45·33
Shahabad	111·72	10·32	4·92	3·60	5·64	8·04	9·84	17·16	31·92	40·68
Mozufferpore	59·88	7·44	3·36	3·24	6·48	5·88	8·16	11·88	21·60	27·60
Durbhanga	72·48	13·20	4·32	4·20	5·04	4·80	8·04	11·88	19·92	33·72
Sarun	105·72	12·24	3·48	3·12	4·56	5·76	8·04	12·24	25·[illegible]	56·16
Chumparun	49·08	8·76	2·76	2·28	4·92	6·00	8·16	12·60	21·00	30·84
Monghyr	234·96	15·36	3·60	3·60	5·04	5·64	7·20	15·48	26·76	09·16
Bhagulpore	177·36	13·44	6·12	5·88	6·60	10·92	13·68	19·08	27·60	44·64
Purneah	90·48	15·12	7·68	10·[illegible]	15·24	20·64	20·76	31·08	41·28	44·64
Maldah	83·04	17·16	9·84	8·48	7·56	12·36	14·76	17·88	18·72	43·32
Sonthal Pergunnahs	96·36	7·44	4·32	5·52	8·04	8·04	7·80	13·20	22·56	27·84
Cuttack	155·64	8·76	3·00	2·28	6·24	8·36	9·00	15·96	19·92	46·80
Puri	351·12	11·88	5·16	3·00	6·36	5·04	12·00	16·08	31·80	74·52
Balasore	311·40	16·80	6·36	6·48	13·20	11·76	17·52	18·12	29·64	61·08
Hazaribagh	96·72	12·48	3·96	4·68	5·16	6·96	12·48	19·92	41·64	73·92
Lohardugga	79·68	8·28	4·20	5·28	7·56	9·96	13·32	20·40	34·80	76·92
Singhbhum	74·16	8·16	5·04	4·56	7·20	9·60	17·76	23·64	40·56	65·28
Manbhum	84·24	12·72	3·96	4·68	8·16	10·20	10·20	14·88	33·36	33·12
TOTAL FOR THE PROVINCE	131·40	13·92	6·00	6·72	11·04	11·64	14·04	19·08	27·24	49·44

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 4th June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

MEMORANDUM.

THE leading features in connection with the vital statistics of the principal Municipalities in Bengal for the week ending 18th May 1889 are the following:—

1. Births and deaths were registered in these Municipalities in the proportions per 1,000 of population of 17·0 and 20·0, respectively, as opposed to 18·9 and 21·6 per 1,000, respectively, in the preceding week ending 11th May, indicating a retrogression in the registration of both.

2. The following Municipalities furnished the highest proportions of births and deaths:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Darjiling	45·6	Puri	52·5
Rampore Beauleah	31·5	Serampore	39·3
Naraingunj	29·0	Gya	33·5
Hughli	28·2	Bhagulpore	32·6
		Jessore	30·6

3. In comparison with the results of the preceding week, there was a diminution of mortality from cholera and fever, but no noticeable differences in the death-rates from the other diseases; *vide* figures quoted below:—

	Ratio per *mille* during the weeks ending— 18th May 1889.	11th May 1889.
Cholera	2·9	4·2
Small-pox	·4	·6
Fever	7·1	8·8
Bowel-complaints	2·4	1·8
Injury	·6	·4
Other causes	6·6	5·8

4. The following Municipalities returned conspicuously high mortality from cholera and the maladies coming under the head of "Other causes," and no Municipality exhibited any noticeably high suffering from the other diseases mentioned in the foregoing table, excepting Jessore, where 24·5 per 1,000 of the population died from fever:—

Cholera.	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Puri	25·2	Serampore	19·6
Kishnaghur	11·3	Bhagulpore	19 0
Serampore	7·9	Puri	16·8
Bhagulpore	4·5	Gya	10·9
Patna	3·6	Monghyr	9·9
Howrah	2 9	Howrah	9·2
Dacca	2·6		

5. The death-rates according to *Sex, Class* and *Age* stood as shown below:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	21·8	Christians	13·1	Under 1 year ...	164·8
Females	18·1	Hindus	20·0	1 and under 5 years ...	25·6
Ratio of male deaths to every 100 female deaths	130	Mahomedans ...	20·4	5 " 10 " ...	10·3
				10 " 15 " ...	10·2
				15 " 20 " ...	22 3
				20 " 30 " ...	12·0
				30 " 40 " ...	12·6
				40 " 50 " ...	15·2
				50 " 60 " ...	25·3
				60 years and upwards ...	33·0

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 3rd June 1889.

1	2	3			4			5			6
		POPULATION.			BIRTHS.						
					Number of—			Ratio per 1,000 of Population per Annum.			
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.
Burdwan ...	Burdwan ...	18,063	16,017	34,050	6	6	12	9·1	9·1	18·3	100
Midnapore ...	Midnapore ...	16,927	16,633	33,560	3	5	8	4·6	7·7	12·4	60
Hughli ...	Hughli and Chinsurah ...	19,179	19,539	38,718	11	10	21	14·8	13·4	28·2	110
Serampore ...	Serampore ...	13,559	12,937	26,496	3	11	14	5·9	21·6	27·5	27
	Utterpara ...	3,046	2,464	5,510	1	1	2	9·4	9·4	18·9	100
Howrah ...	Howrah ...	53,153	37,660	90,813	17	16	33	9·7	9·2	18·9	106
	Bali ...	7,836	6,979	14,815	1	...	1	3·5	...	3·5	No female birth.
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	5	6	11	9·5	11·3	20·8	83
	Ranaghat ...	4,028	4,655	8,683	...	1	1	...	6·0	6·0	No male birth
	Santipore ...	13,708	15,979	29,687	5	8	13	8·7	14·0	22·8	62
Jessore ...	Jessore ...	4,830	3,665	8,495	...	..	..	.	...	...	......
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	4	8	12	10·5	21·0	31·5	50
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	5	2	7	32·6	13·0	45·6	250
Dacca ...	Dacca ...	42,782	37,379	80,161	11	5	16	7·1	3·2	10·4	220
	Narainganj ...	7,695	4,956	12,561	2	5	7	8·3	20·7	29·0	40
Chittagong ...	Chittagong ...	13,340	8,790	22,130	7	1	8	16·4	2·3	18·8	700
Tipperah ...	Comillah ...	8,153	5,353	13,506		3	3	...	11·6	11·6	No male birth.
Patna ...	Patna City ...	78,762	81,475	160,237	13	14	27	4·2	4·5	8·8	92
Gya ...	Gya ...	38,290	37,831	76,121	10	9	19	6·8	6·1	13·0	111
Shahabad ...	Arrah ...	20,960	22,505	43,465	4	2	6	4·8	2·4	7·2	200
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	10	9	19	12·2	10·9	23·1	111
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	16	13	29	12·6	10·2	22·8	123
Sarun ...	Chupra ...	26,044	27,205	53,249	6	12	18	5·9	11·7	17·6	50
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	12	13	25	10·9	11·7	22·6	92
Monghyr ...	Monghyr ...	28,154	29,366	57,520	17	13	30	15·4	11·7	27·1	150
Purneah ...	Purneah ...	8,463	6,553	15,016	...	2	2	...	6·9	6·9	No male birth.
Puri ...	Puri ...	13,247	11,537	24,784	2	5	7	4·2	10·5	14·7	40
	Total ...	555,685	515,457	1,071,142	171	180	351	8·3	8·7	17·0	95

	7							8							9	10		11		12
	MORTALITY ACCORDING TO—																			
	Disease.															Sex.				
	Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
NAMES OF MUNICIPALITIES.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan	1	...	6	..	1	5	13	1·5	...	9·1	...	1·5	7·6	19·8	22·9	5	8	14·4	26·0	62
Midnapore	...	...	5	1	..	1	7	...	...	7·7	1·5	...	1·5	10·8	15·5	4	3	12·3	9·4	133
Hughli and Chinsurah	1	...	4	1		4	10	1·3	...	5·4	1·3	...	5·4	13·4	14·8	8	2	21·7	5·3	400
Serampore	4	...	3	3	...	10	20	7·9	...	5·9	5·9	...	19·6	39·3	41·2	9	11	34·5	44·2	81
Utterpara	...	...	.	..	...	1	1	..	...	...	.	...	9·4	9·4	37·7	...	1	...	21·1	No male death.
Howrah	5	3	7	2	...	16	33	2·9	1·7	4·0	1·1	...	9·2	18·9	16·6	21	12	20·5	16·6	175
Bali	...	...	1	...	..	1	2	..	...	3·5	..	...	3·5	7·0	3·5	...	2	...	14·9	No male death.
Kishnaghur		...	2	...	1	3	12	11·3	...	3·8	...	1·9	5·7	22·7	36·0	7	5	27·4	18·3	140
Ranaghat	1	...	.	.	...	...	1	6·0	...	.	...	...		6·0	41·9	...	1	...	11·2	No male death.
Santipore	2	...	2	1	1	1	7	3·5	...	3·5	1·7	1·7	1·7	12·3	19·3	5	2	19·0	6·5	250
Jessore	...	...	4	1	...	...	5	..	...	24·5	6·1	...	...	30·6	6·1	4	1	43·1	14·2	400
Rampore Beauleah	1	...	3	2	...	1	7	2·6	...	7·9	5·3	...	2·6	18·4	39·4	5	2	24·2	11·5	250
Darjiling*	...	...	...	.	...	..		...	...	...	...	..	...	...	13·0	...	...	...	...	......
Dacca	4	...	5	2	1	8	20	2·6	..	3·2	1·3	·6	5·2	13·0	11·7	11	9	13·4	12·5	122
Narainganj	...	...	..	...	...	2	2	...	...	...	...	...	8·3	8·3	31·4	...	2	...	21·0	No male death.
Chittagong	...	...	5	2	...	2	9	...	...	11·7	4·7	...	4·7	21·1	18·8	7	2	27·3	11·8	350
Comillah	2	...	1	...	...	.	3	7·7	...	3·9	...	..	...	11·6	46·2	2	1	12·8	9·7	200
Patna City	11	...	17	10	3	14	55	3·6	...	5·5	3·2	1·0	4·5	17·8	17·2	32	23	21·1	14·7	139
Gya	3	2	27	1	..	16	49	2·0	1·4	18·4	·7	...	10·9	33·5	44·4	27	22	36·7	30·2	122
Arrah	...	1	3	...	...	1	5	..	1·2	3·6	..	...	1·2	6·0	1·2	3	2	7·4	4·6	150
Mozufferpore	1	1	8	5	...	...	15	1·2	1·2	9·7	6·1	...	...	18·2	20·7	9	6	20·3	15·9	150
Durbhanga	...	.	15	5	..	8	28	..	..	11·8	3·9	...	6·3	22·0	31·5	16	13	24·6	19·3	133
Chupra	.	1	11	1	4	2	19	...	1·0	10·7	1·0	3·9	2·0	18·6	11·7	9	10	18·0	19·1	90
Bhagulpore	5	..	7	3	..	21	36	4·5	...	6·3	2·7	...	19·0	32·6	22·6	22	14	38·6	26·2	157
Monghyr	...	...	8	6	1	11	26	..	...	7·2	5·4	·9	9·9	23·5	12·7	12	14	22·2	24·8	85
Purneah	...	...	2	...	.	...	2	.	...	6·9	...	...	...	6·9	31·2	1	1	6·1	7·9	100
Puri	12	.	1	3	1	8	25	25·2	..	2·1	6·3	2·1	16·8	52·5	31·5	14	11	24·9	23·1	127
Total	59	8	147	49	13	136	412	2·9	·4	7·1	2·4	·6	6·6	20·0	21·6	233	179	21·8	18·1	130

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "*Age*," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

		13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths among—					Ratio per 1,000 of Population per annum					Deaths.										Ratio per 1,000 of Population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	11	2	...	...	...	24·2	16·1	.	.	2	...	2	1		3	1	2	1	1	157·6	...	44·6	20·7	...	19·7	7·5	23·5	21·2	53·1
Midnapore	Midnapore	...	6	1	...	...	...	12·0	7·2	...	..	1		.	..	2	1	1	1	..	1	70·0	...	...	.	33·9	7·1	9·4	14·0	...	28·4
Hughli	Hughli and Chinsurah ..	.	5	5	.	...	...	8·2	38·1	..	...	4	1	...	...	1	...		1	...	3	220·6	19·5	...	...	17·5	...	.	10·1	...	61·2
Serampore	Serampore	.	19	1	...	...	..	39·2	55·4	...	..	5	3	..	..		3	3	3	1	2	366·2	86·4	...	...	...	29·0	31·4	46·2	27·2	74·8
	Utterpara	...	1	...	...	..	..	9·8		..	...	1	...		...	...	...	...		.	..	323·0	..	..	...	...	...	...	...	...	...
Howrah	Howrah	1	22	10	...	.	27·5	16·8	25·3	.	..	6	3		1	3	5	3	5	5	2	151·2	28·2	...	7·9	21·3	11·5	8·1	22·1	47·4	27·7
	Bali	...	2	...	...	...	..	7·8		...	.			..	...	.	..	...	1	1		..	...	...	...	...	...	..	26·9	49·6	...
Nuddea	Kishnaghur	1	9	2	...	...	91·7	25·1	12·6	..	...	1	1	1	1	3	1	1	.	2	1	104·8	21·1	15·1	15·5	75·8	10·8	12·1	...	49·4	30·1
	Ranaghat	...	1	...	...	...	.	7·1		..	...	.	1	...	..	..	...	.	.	...	—	..	65·4	...	...	...	...	...	...	...	...
	Santipore	...	6	1	...	...	.	15·1	5·8	...	...	...	1	...	2	1	1	1		1	.	.	17·9	...	35·9	23·4	10·6	12·0	...	22·6	...
Jessore	Jessore	...	...	5	...	...	...	..	68·0	...	...	1	..	..	...	2	1	1	..	...	...	268·0	...	...	...	142·1	25·3	34·0	...	...	...
Rajshahye	Rampore Beauleah ...	...	4	3	...	...	...	21·0	15·0	..	..	1	1	..	...	...	2		2	1	.	128·1	36·7	..		...	25·0	...	42·4	41·9	...
Darjiling	Darjiling	...	...	...	...	...	...	..	..	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	..	...	...	...
Dacca	Dacca	...	9	11	...	...	...	11·6	14·5	..		.	3	3	..	2	5	3	1	3	...	...	21·2	15·7	...	14·2	17·0	13·4	6·2	32·9	...
	Naraingunj	...	...	2	...	...	...	..	16·9	...	.	1		..	1	...	...	...	..	...		186·4	...	...	45·8	...	..	...	...	...	...
Chittagong	Chittagong	...	2	7	...	...	..	17·9	23·8	...		1	2	...	1	1	1	2	1		..	92·4	52·9	...	20·2	21·5	11·2	31·2	23·0	...	...
Tipperah	Comillah	...	..	3	...	...	...	...	21·1	...	..	1	...	..	..	..	1	...		..	1	175·1	...	...	...	...	18·8	...	...	...	76·7
Patna	Patna City	...	43	12	...	...	...	18·8	15·3	...	...	6	5	6	6	8	3	5	3	4	9	72·4	17·8	18·5	21·7	37·2	5·4	11·2	8·3	14·7	33·9
Gya	Gya	...	33	17	...	..	..	27·7	55·0	..	..	13	4	2	1	6	1	4	8	3	7	377·7	32·7	14·9	7·7	59·6	3·5	16·3	42·6	23·7	70·7
Shahabad	Arrah	...	4	1	..	...	...	6·7	4·2	..	..	2	1	1	..	..		..	..	1	.	80·7	11·7	10·1	...	..	...	...	...	16·8	...
Mozufferpore	Mozufferpore	...	8	7	...	...	...	13·9	29·2	...	...	4	3	1	...	1	2	1	..	3	...	217·8	38·6	11·6	...	17·2	12·1	7·5	...	48·0	...
Durbhanga	Durbhanga	...	21	7	...	...	...	22·6	20·7	...	..	10	5	2	1		1	1	2	2	4	334·0	34·2	13·3	9·4		3·9	4·7	14·0	23·7	65·1
Sarun	Chupra	...	13	6	...	...	..	16·4	26·0	...	...	4	3	...	2	1	1	5	..	1	2	144·0	29·4	..	20·2	14·6	5·5	33·2	...	12·3	29·9
Bhagulpore	Bhagulpore	...	27	9	...	...	...	35·3	27·2	..	...	6	5	2	1	1	8	4	2	3	4	261·3	48·0	17·7	8·3	12·4	38·1	22·4	16·5	36·6	57·7
Monghyr	Monghyr	...	23	3	...	...	...	26·7	12·4	..	...	10	8	2	..	...	2	3	2	...	4	350·2	25·1	14·7	...	.	10·1	17·5	16·3	...	58·0
Purneah	Purneah	..	1	1	...	...	...	5·7	9·2	.	...	.				1	..	..	.	...	1	...	...	...	...	52·3	...	...	...	...	64·4
Puri	Puri	...	25	...	...	...	..	53·0	..		...	1	1	.	1	2	7	4	3	6	..	171·6	28·9	..	27·7	55·9	68·9	51·3	46·9	139·8	..
	TOTAL ...	2	294	116	...	...	13·1	20·0	29·4	...	..	81	46	22	19	35	49	43	37	38	42	164·8	25·6	10·3	10·2	22·3	12·0	12·6	15·2	25·3	33·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 3rd June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st June 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 1st June 1889.			Week ending Saturday, the 2nd June 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	213	73,095	1,317	317	68,255	1,148
Jute	9	6,020	84	10	7,700	117
Firewood	108	59,000	911	81	40,720	6[illegible]2
Other articles	687	2,02,550	2,977	791	1,90,575	2,582
Total ...	1,017	3,40,665	5,289	1,199	3,07,250	4,419

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of February 1889, *as compared with the same month of the previous year.*

STAPLES.	1889.		1888.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	15,506	3,390	14,822	4,325	18,896	19,147	......	251
Cotton, raw	......	502	9	432	502	441	61	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece goods—								
1.—European—								
a.—In bales and bundles	2,418	199	2,694	209	2,617	2,903	......	286
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2,061	2,076	3,909	8,860	4,137	12,769	......	8,632
5.—Others	636	7,258	1,750	8,813	7,894	10,563	......	2,669
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	39	646	20	932	685	952	... .	267
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	......	1,645	....	3,504	1,645	3,504	... ..	1,859
b.—Unscrewed	27	5,525	....	6,630	5,552	6,630	..	1,078
2.—Gunny bags and cloth	166	834	271	1,225	1,000	1,496	......	496
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	1,294	211	1,652	124	1,505	1,776	......	271
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	247	15	456	21	262	477	.. .	215
3.—Others	115	46	254	68	161	322	... ..	161
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	28	3,688	272	1,101	3,716	1,373	2,343	......
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	132	74	86	757	206	843	... .	637
3.—Others	577	504	632	523	1,081	1,155		74
Railway plant and rolling-stock	3,314	1,827	3,257	755	5,141	4,012	1,129	..
Salt	2,464	18	5,210	30	2,482	5,240	.. ...	2,758
Sugar—								
1.—Drained	1,128	1,688	1,130	2,639	2,816	3,769	......	953
2.—Undrained								
Tea—								
1.—Foreign...	4	29	1	233	33	234	......	201
2.—Indian								
Wood—								
1.—Timber	65	193	233	119	258	352	.. ...	94
2.—Firewood	1,845	...	2,365	174	1,845	2,539	...	694
Tobacco	35	850	47	927	885	974	... ..	89
All other articles of merchandise—								
1.—Unmanufactured	4,635	1,992	5,420	1,750	6,627	7,170	... ..	543
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections)..	1,029	......	758	3	1,029	761	268	.....
Total ..	37,765	33,210	45,218	44,154	70,975	89,402	3,801	22,228

INCREASES.

	Tons.
Seeds	2,343

Goalundo, Serajganj, and Naraingunj show the principal increases. There was a good business done early in the month at Calcutta in linseed for America.

Railway plant, &c.	1,129

For maintenance and renewals.

DECREASES.

Rice	8,632

Due to partial failure of the rice crop in Bengal. Parts of the northern section seem to have suffered considerably, while Parbatipur and Dinagepur show substantial increases.

The decrease on the southern section is general.

Jute	2,937

Dacca and Naraingunj show large decreases in screwed jute. There are also decreases in unscrewed jute from the northern section.

Betelnuts	637

Decrease from the northern section.

Salt	2,758

The principal falling off is from Chitpore, 59,357 maunds. It was understood, owing to some statement made by the Secretary of State for India in the House, that the duty would be reduced in April, and despatches were withheld.

Sugar	953

Decreased outturn and a dull market.

Firewood	694

Ordinary fluctuations.

CALCUTTA, *the* 30*th May* 1889. F. P. QUINLAN, *Examiner of Accounts.*

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of February 1889, *as compared with the same month of the previous year.*

Staples.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	5,038	46	3,212	......	5,084	3,212	1,872	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	185	......	215	......	185	215	......	30
b.—In boxes								
2.—Indian—								
a. In bales and bundles								
b.—In boxes								
Grains—								
3.—Rice	6	46	3	1,183	52	1,186	......	1,134
5.—Others	29	469	12	568	498	580	.....	82
Hides and skins								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	..	28	..	42	28	42	......	14
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	....	......	..	......	...	......	
b.—Unscrewed	.	78	..	84	78	84	......	6
2.—Gunny bags and cloth	12	...	19	1	12	20	...	8
Metals—								
1.—Copper, unwrought								
2. Brass, unwrought								
3.—Brass and copper, wrought	65	33	63	28	98	91	7	......
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	53	.	110	......	53	110	.....	57
3.—Others	42	...	130	1	42	131	.	89
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	34	409	240	147	533	387	146	.
5. Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts		69	.	750	69	750	...	681
3.—Others	162	174	208	117	336	325	11	...
Railway plant and rolling-stock	31	11	83	26	42	109	..	67
Salt	127	.	228	.....	127	228	....	101
Sugar—								
1.—Drained	28	1,185	10	2,083	1,213	2,093	......	880
2.—Undrained								
Tea—								
1.—Foreign	......	...	1	....	..	1	.....	1
2.—Indian								
Wood—								
1.—Timber			33	28		61	.	61
2.—Firewood								
Tobacco	10	12	28	.....	22	28	..	6
All other articles of merchandise—								
1.—Unmanufactured	323	167	507	247	490	754	..	264
2.—Manufactured								
Total ...	6,145	2,817	5,102	5,305	8,962	10,407	2,036	3,481

Increases.

	Tons.
Coal ...	1,872
For railway and flotilla purposes principally.	
Oilseeds ...	146
A fair business done early in the month in linseed for America.	

Decreases.

Rice ...	1,134
Due to partial failure of crops in the district.	
Betelnuts ...	681
There was a falling off of 2,500 maunds in the Khoolna local, and 1,500 maunds in the through booked traffic from the Bengal Central Flotilla. The traffic is coming into Calcutta by river, taken by the Bengal Central Flotilla direct.	
Sugar ...	880
Due to increased outturn, Jhikargachi showing a decrease of 9,593 maunds, and a dull market.	

CALCUTTA, *the* 30*th April* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of April 1889, *as compared with the same month of the previous year.*

Staples.	1888.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	484	......	228	......	484	228	......	256
Cotton, raw	7	......	......	......	7	......	......	7
Cotton twist and yarn—								
1.—European	42	2	......	......	44	......	......	44
Cotton piece-goods—								
1.—European	......	......	43	1	......	44	44	......
Jute—								
1.—Raw	......	......	......	5	......	5	5	......
2.—Gunny bags and cloths	17	6	18	1	23	19	......	4
Grains—								
1.—Wheat	......	......	......	7	......	7	7	......
2.—Rice	41	366	11	59	407	70	......	337
4.—Gram	......	......	......	19	......	19	19	......
5.—Others	5	33	13	33	38	46	8	......
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	......	3	......	5	3	5	2	......
b.—Undressed	......	......	1	1	......	2	2	......
Lac—								
1.—Stick	1	2	......	......	3	......	......	3
Leather, manufactured	1	......	3	......	1	3	2	......
Liquors—								
1.—Beer	1	......	1	......	1	1	......	......
2.—Wines	1	......	1	......	1	1	......	......
Metals—								
3.—Iron	9	......	10	......	9	10	1	......
4.—Others	2	1	5	3	3	8	5	......
Oils—								
1.—Castor	2	......	3	......	2	3	1	......
2.—Kerosine	1	......	1	......	1	1	......	......
3.—Others	5	......	19	......	5	19	14	......
Provisions—								
1.—Ghee	3	......	2	......	3	2	......	1
2.—Dried fruits and nuts	1	......	5	......	1	5	4	......
3.—Others	......	......	13	......	......	13	13	......
Railway plant and rolling-stock	53	9	32	7	62	39	......	23
Salt	32	......	78	......	32	78	46	......
Oilseeds—								
1.—Linseed	7	36	8	107	43	115	72	......
2.—Mustard and rape	121	......	62	......	121	62	......	59
6.—Others	19	......	......	......	19	......	......	19
Silk, raw—								
2.—Indian	12	16	6	11	28	17	......	11
Silk piece-goods—								
2.—Indian	......	4	......	6	4	6	2	......
Sugar—								
1.—Drained	43	......	36	......	43	36	......	7
2.—Undrained	5	......	1	......	5	1	......	4
Tobacco	3	2	2	......	5	2	......	3
Wool—								
1.—Raw	......	......	1	......	......	1	1	......
Paper and pasteboard	3	......	10	......	3	10	7	......
All other articles of merchandise	96	23	100	36	119	136	17	......
Total	1,017	503	713	301	1,520	1,014	272	778

INCREASE.

	Tons.
Cotton piece-goods—	
(1) European	44
Probably due to an alteration of classification. There is a corresponding decrease under cotton twist and yarn.	
Grains—	
(4) Gram	19
This increase is due to there being no traffic under this head last year.	
Oils—	
(3) Others	14
This increase is due to high market rate in the local bazars.	
Provisions—	
(3) Others	13
Due to greater imports of potatoes this year.	
Salt	46
The former stock being exhausted, the merchants imported greater quantities to keep in stores. Hence the increase.	
Oilseeds—	
(1) Linseed	72
Due to favourable demand.	

DECREASE.

	Tons.
Coal	256
Due to previous stock not being exhausted.	
Cotton twist and yarn—	
(1) European	44
Grains—	
(2) Rice	337
Due to less exports owing to the unfavourable state of crops this year.	
Railway plant and rolling-stock	23
Due to less materials being carried this year.	
Oilseeds—	
(2) Mustard and rape	59
(6) Others	19
Due to less demand.	
Silk raw—	
(2) Indian	11
Due to dull market.	

The 22*nd May* 1889.

S. FINNEY,
for Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 25th May 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
...al traffic for the week ...	264,585	2,59,322 12 0	29,96,831 0	6,91,714 9 0	21,642 10 0	9,72,279 15 0	63,524	115,397	178,921
per mile of railway ...	.....	171 5 5	....	456 12 3	14 4 10	642 6 6	..	...	...
...r previous 20 weeks of half-year	5,358,465	60,04,277 1 0	5,60,80,555 0	1,25,44,816 5 4	3,28,634 7 8	1,88,77,727 14 0	1,309,775¼	1,962,717¾	3,272,492¾
Total for 21 weeks ...	5,623,050	62,63,599 13 0	5,90,77,386 0	1,32,36,130 14 4	3,50,277 1 8	1,98,50,007 13 0	1,373,299¼	2,078,114¾	3,451,413¾
Comparison									
...tal for corresponding week of previous year	286,329	2,50,506 14 3	28,75,045 30	6,67,415 13 3	18,384 4 6	9,36,307 0 0	64,096	109,083	173,779
...r mile of railway corresponding week of previous year ..	.	165 7 10	......	440 14 5	12 2 4	618 8 7	..	....	...
...tal to corresponding date of previous year	5,700,631½	63,44,694 4 3	6,02,65,014 10	1,40,59,324 14 11	4,52,517 11 2	2,08,56,536 14 4	1,383,920	2,236,556	3,620,476

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
...513¾	9,36,307	619	1,513¾	9,72,280	642	1,513¾	78,82,880	651	1,513¾	77,30,798	638	......	1,52,092

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 25th May 1889, on 57⅛ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
...tal traffic for the week ...	11,164	5,196 10 0	45,640 30	2,510 4 0	44 13 0	8,051 11 0	1,395	1,457	2,852
per mile of railway ...	195	90 13 7	798 0	40 2 1	0 12 7	140 12 3	....	.. ..	...
...r previous 20 weeks of half-year	288,399	1,55,034 5 9	8,08,377 30	49,443 2 0	1,064 1 10	2,05,541 9 7	36,928½	12,857	49,785½
Total for 21 weeks ...	299,563	1,60,230 15 9	8,54,018 20	52,253 6 0	1,108 14 10	2,13,593 4 7	38,323½	14,314	52,637½
Comparison.									
...tal for corresponding week of previous year	12,343	5,143 8 10	67,499 20	3,335 6 0	22 10 0	8,501 8 10	1,648	1,198	2,846
...r mile of railway corresponding week of previous year ...	216	89 14 9	1,180 10	58 5 0	0 6 4	148 10 1	...		......
...tal to corresponding date of previous year	304,623	1,56,273 0 9	8,90,603 0	58,429 5 0	862 1 6	2,15,564 7 3	36,945	14,932	51,877

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57⅛	8,502	149	57⅛	8,052	141	57⅛	76,529	167	57⅛	76,907	168	378	

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 25th May 1889, *on* 12 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,257	554 0 0	15,109 20	455 8 0	10 0 0	1,009 8 0	271½	222	493½
Or per mile of railway ..	....	46 5 4	......	37 15 4	0 13 4	84 2 0	......	......	......
For previous 20 weeks of half-year	56,953	9,675 0 9	3,67,281 10	8,742 13 0	190 2 8	18,608 0 5	6,850½	2,878½	9,729
Total for 21 weeks ..	60,210	10,219 0 9	3,82,390 30	9,198 5 0	200 2 8	19,617 8 5	7,122½	3,100½	10,222½
Comparison.									
Total for corresponding week of previous year	3,758½	627 1 3	19,706 0	833 0 0	8 12 6	1,468 13 9	201	292	493
Per mile of railway corresponding week of previous year	.....	52 4 1	.....	69 6 8	0 11 9	122 6 6	....	......	.. ...
Total to corresponding date of previous year	67,289½	11,391 9 6	4,71,071 20	12,043 15 0	218 9 9	23,654 2 3	6,306	4,047	10,353

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th May 1888			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,469	122	12	1,010	84	12	11,181	117	12	8,127	85	...	3,0[illegible]4

TARKESSUR BRANCH RAILWAY

Approximate Return of Traffic for week ended 25th May 1889, *on* 22½ *miles open.*

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	21,176	5,872 7 0	7,898 10	298 15 0	8 9 0	6,173 13 0	911	57	968
Or per mile of railway		263 14 10	....	13 2 7	0 6 2	277 7 7	...	......	......
For previous 20 weeks of half-year	458,326	1,20,224 6 0	1,93,794 10	6,987 8 0	127 1 10	1,27,338 15 10	18,435	1,220	19,655
Total for 21 weeks ...	479,502	1,26,096 13 0	2,01,692 20	7,280 5 0	135 10 10	1,33,512 12 10	19,[illegible]	1,277	20,623
Comparison									
Total for corresponding week of previous year	19,820	5,033 15 0	7,071 20	103 3 0	8 7 0	5,140 9 0	889	79	968
Per mile of railway corresponding week of previous year	....	226 3 11	. ..	4 10 2	0 2 6	231 0 7	....	.....	
Total to corresponding date of previous year	474,926	1,24,947 10 4	1,74,240 20	6,274 4 0	156 10 0	1,31,378 8 4	19,164	1,604	20,768

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs	Rs.		Rs.	Rs.		Rs	Rs.	Rs.	Rs.
22½	5,141	231	22½	6,174	277	22½	55,525	312	22½	52,221	293	......	3,304

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 18th May 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
tal traffic for the week ...	132,200	58,020 0 0	4,85,530 0	84,340 0 0	13,490 0 0	1,56,450 0 0	21,270	22,966	44 236
per mile of railway	196	87 0 0	721 0	125 0 0	†3 0 0	215 0 0	.. ...	.. ...	....
r previous 19 weeks of half-year	2,812,044	14,18,591 0 0	96,68,056 0	15,93,171 0 0	3,29,427 0 0	*33,41,189 0 0	405,292	456,824	862,116
Total for 20 weeks ...	2,944,244	14,77,211 0 0	1,01,53,586 0	16,77,511 0 0	3,42,917 0 0	34,97,639 0 0	426,562	479,790	906,352
COMPARISON.									
tal for corresponding week of previous year .. .	124,697	57,915 0 0	4,76,404 0	78,158 0 0	11,658 0 0	1,47,731 0 0	21,623	22,292	43,915
r mile of railway corresponding period of previous year .	185	86 0 0	708 0	116 0 0	†2 0 0	204 0 0	.. ..	.. .	..
tal to corresponding date of previous year	2,816,879	14,28,327 0 0	1,08,20,398 0	15,40,339 0 0	3,07,222 0 0	32,75,888 0 0	438,037	483,450	921,487

* Audited up to week ending 13th April 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,47,731	220	673	1,56,450	233	673	9,89,066	210	673	*10,91,773	232	1,02,707	.....

* Audited up to week ending 13th April 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 18th May 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
otal traffic for the week ...	26,620	9,260 0 0	55,150 0	3 540 0 0	30 0 0	12,830 0 0	3,597	2,075	5,672
per mile of railway .	213	74 0 0	441 0	29 0 0	...	103 0 0	.	..	
or previous 19 weeks of half-year	541,326	1,91,289 0 0	10,68,981 0	62,389 0 0	4,686 0 0	*2,58,364 0 0	67,374	38,877	106,251
Total for 20 weeks ...	567,946	2,00,549 0 0	11,24,131 0	65,929 0 0	4,716 0 0	2,71,194 0 0	70 971	40,952	111,923
COMPARISON.									
otal for corresponding week of previous year	25,436	8,621 0 0	54,622 0	4,209 0 0	27 0 0	12,857 0 0	3,454	2,164	5,618
Per mile of railway corresponding period of previous year	203	69 0 0	437 0	34 0 0		103 0 0	... .	......	.....
Total to corresponding date of previous year	531,900	1,77,330 0 0	10,28 486 0	65,809 0 0	4,033 0 0	2,47,172 0 0	67,358	40,118	107,476

* Audited up to week ending 13th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,857	103	125	12,850	103	125	80,426	92	125	*93,456	107	13,030	

* Audited up to 13th April 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th May 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	12,050	3,680 0 0	14,590 0	890 0 0	180 0 0	4,750 0 0	2,502	602	3,104
Or per mile of railway	140	43 0 0	170 0	10 0 0	2 0 0	55 0 0	......	......	......
For previous 19 weeks of half-year	286,540	90,688 0 0	2,36,340 0	18,593 0 0	3,117 0 0	*1,12,398 0 0	45,856	13,267	59,123
Total for 20 weeks ...	298,590	94,368 0 0	2,50,930 0	19,483 0 0	3,297 0 0	1,17,148 0 0	48,358	13,869	62,227
Comparison.									
Total for corresponding week of previous year ..	13,126	4,084 0 0	6,796 0	504 0 0	29 0 0	4,617 0 0	2,502	602	3,104
Per mile of railway corresponding period of previous year	153	48 0 0	79 0	6 0 0	......	54 0 0	......	......	......
Total to corresponding date of previous year	281,768	85,585 0 0	2,38,686 0	17,043 0 0	3,530 0 0	1,06,158 0 0	49,819	12,301	62,120

* Audited up to week ending 13th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,617	54	86	4,750	55	86	34,498	57	86	*36,494	60	1,996	......

* Audited up to week ending 13th April 1889.

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 18th May 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,110	790 0 0	37,180 0	2,870 0 0	10 0 0	3,670 0 0	532	532	1,064
Or per mile of railway ...	56	21 0 0	978 0	76 0 0	......	97 0 0	.....	......	...
For previous 19 weeks of half-year	57,192	20,957 0 0	5,06,946 0	36,202 0 0	3,334 0 0	*60,493 0 0	9,980	9,980	19,960
Total for 20 weeks ...	59,302	21,747 0 0	5,44,126 0	39,072 0 0	3,344 0 0	64,163 0 0	10,512	10,512	21,024
Comparison.									
Total for corresponding week of previous year . ..	3,122	1,014 0 0	34,082 0	2,471 0 0	24 0 0	3,509 0 0	546	546	1,092
Per mile of railway corresponding period of previous year .	80	26 0 0	874 0	63 0 0	1 0 0	90 0 0	......	... .	.....
Total to corresponding date of previous year	62,633	21,248 0 0	5,68,037 0	41,277 0 0	901 0 0	63,428 0 0	10,920	10,920	21,840

* Audited up to week ending 13th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 19th May 1888.			Receipts for week ending 18th May 1889.			Total receipts from 1st April 1888 to 19th May 1888.			Total receipts from 1st April 1889 to 18th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,509	90	38	3,670	97	39	23,079	85	38	*23,981	90	902	... ..

* Audited up to 13th April 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th May 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,119	1,055 0 0	12,462 0	790 0 0	11 0 0	1,856 0 0	509	254	763
Or per mile of railway	114	39 0 0	457 0	29 0 0	......	68 0 0	......	......	.....
For previous 19 weeks of half-year	65,484	24,420 0 0	2,13,337 0	13,085 0 0	1,461 0 0	38,966 0 0	10,035	8,519	18,554
Total for 20 weeks ...	68,603	25,475 0 0	2,25,799 0	13,875 0 0	1,472 0 0	40,822 0 0	10,544	8,773	19,317
Comparison.									
Total for corresponding week of previous year	2,863	1,038 0 0	11,005 0	794 0 0	38 0 0	1,870 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	105	38 0 0	401 0	29 0 0	2 0 0	69 0 0	......	...	...
Total to corresponding date of previous year	68,853	25,219 0 0	3,17,136 0	18,004 0 0	452 0 0	43,675 0 0	10,689	9,026	19,715

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,870	69	27½	1,856	68	27½	14,648	67	27½	12,822	59	......	1,826

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th May 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	40,282	14,329 0 0	2,42,162 0	20,848 0 0	4,282 0 0	39,459 0 0	4,271	7,078	11,349
Or per mile of railway	148	52 0 0	887 0	76 0 0	3 0 0	131 0 0*	.....	.. ..	...
For previous 19 weeks of half-year	860,448	3,22,898 0 0	30,68,874 0	2,87,124 0 0	69,541 0 0	6,79,563 0 0	106,958	109,825	216,783
Total for 20 weeks ...	900,730	3,37,227 0 0	33,11,036 0	3,07,972 0 0	73,823 0 0	7,19,022 0 0	111,229	116,903	228,132
Comparison.									
Total for corresponding week of previous year on 259 miles open	42,909	15,758 0 0	2,14,655 0	19,793 0 0	3,263 0 0	38,814 0 0	5,801	6,881	12,682
Per mile of railway corresponding week of previous year ...	166	61 0 0	829 0	76 0 0	1 0 0	138 0 0*	......	....	...
Total to corresponding date of previous year	918,363	3,56,222 0 0	41,39,186 0	4,40,753 0 0	70,866 0 0	8,76,841 0 0	129,697	163,058	297,755

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	38,814	150	273	39,459	145	259	3,19,060	154	273	3,12,690	143	....	6,370

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 5th June 1889.

REGISTERED No. 29.

No. 24 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JUNE 12, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

RESOLUTION ON THE REPORT ON INLAND EMIGRATION FOR THE YEAR 1888.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Darjeeling, the 27th May, 1889.

RESOLUTION.

READ—

The Report of the Superintendent of Emigration, Calcutta, No. 837, dated the 30th April 1889, on Inland Emigration, for the year 1888.

Personal.

The office of Superintendent of Emigration was held during the early part of the year by Dr. Grant, the permanent incumbent, Dr. Gregg, and then Dr. Comins officiating subsequently. The thanks of the Lieutenant-Governor are conveyed to all three officers for their attention to their duties during what has been an unusually trying season.

Recruitment.

2. It has been remarked in more than one previous Resolution that the number of labourers recruited by persons licensed to make engagements under Act I of 1882 was rapidly decreasing, having fallen from 31,286 in 1884 to 9,693 in 1887. During 1888 this tendency was checked, the number recruited in the manner indicated rising to 13,548. The falling off in former years was due to the development of free emigation, or unlicensed recruiting; while the reaction which has now set in is attributed by the Superintendent to the discouragement of that system by employers, owing to the increased expense of obtaining labourers under it, and the insecurity attending their conveyance to their

destination. The Superintendent will be requested to report to Government any information which he may possess as to this enhancement in the cost of free recruiting, the subject being one of the first importance. Notwithstanding the appreciable increase in the number of labourers recruited under the Act, the great majority of emigrants are still conveyed by private arrangement, as appears from the fact that 21,851 were conducted on this system to the Assam Valley during the year, of whom 21,323 executed statutory contracts at Dhubri. The number of free emigrants to Sylhet and Cachar is not known. The great bulk of the registered labourers are classified as engaged by garden sirdars, but it is understood that the importance of the distinction between recruitment by sirdars and recruitment by contractors has diminished in recent years, as most of the sirdars now work under local agents, who are in reality contractors. The whole subject of recruitment in its various forms is under consideration with a view to the correction of abuses recently disclosed.

Sanitary condition of licensed depôts.

3. The Lieutenant-Governor notices with satisfaction that the Superintendent is able to report favourably of the condition of the depôts in which registered labourers are detained pending their removal to Assam. It is stated that there was no over-crowding, that the conservancy arrangements were satisfactory, the water-supply was good, the food sufficient and wholesome, and that the percentage of sickness was 2·3 to the total population, a proportion which does not appear to be excessive. As to the deaths which occurred, the report states that the rate of mortality during the past three years was—

In 1886	...	... 2·4 per *mille* of total admissions into depôt.
„ 1887	...	... 1·3 ditto ditto.
„ 1888	...	... 2·1 ditto ditto.

Cholera prevailed to some extent during the year under review in the recruiting districts and in the Suburbs of Calcutta, and two cases occurred in one of the depôts among emigrants who were recruited in the Suburbs. The patients were at once removed to the Campbell Hospital, and both ultimately recovered.

The causes of mortality in the depôts were—

Pneumonia	1
Anæmia and gangrene	1
Premature birth	1
Total ...	3

If the last death be excluded, as it should be, from the list of depôt casualties, the year's percentage of mortality will be nearly the same as that of 1887.

The Superintendent does not refer to the depôts for unregistered emigrants, which have not hitherto been under his supervision: but it is known from other sources that in these there is much room for improvement, and an Act has been recently passed to ensure their inspection in future.

Transport.

4. Detailed information is given in the report as to the labourers conveyed *viâ* Goalundo, by which route 2,551 were taken to Assam, 552 to Cachar, and 81 to Sylhet. Among those proceeding by Goalundo to Assam, there were seven deaths from cholera. But there are no returns as to the emigrants adopting the Dhubri route, who now constitute the great majority, and no remarks as to them are offered in the report. The facts come more fully before the Assam Administration, but it is known to this Government that great mortality occurred during the year on this line, over six hundred emigrants having died from cholera. The Superintendent will be requested to collect what information he can as to transport by the Dhubri route, and to embody it in future reports. He has taken much interest in effecting improvements, and the absence of reference to the subject under the head of Transport is no doubt due only to the want of official returns and to the system on which these reports have hitherto been compiled.

Administrative measures.

5. The Superintendent notices that, in consequence of the outbreak of cholera, emigration from certain districts was at first discouraged, and in April absolutely prohibited by an order under Act I of 1882. He observes—

With a view to preventing the spread of cholera among coolies under conveyance to Assam, the agency that was employed in 1887 for the medical inspection of coolies at Mugra

station, East Indian Railway, was in April 1888, with the sanction of Government, transferred to Naihati station, Eastern Bengal State Railway, where coolies proceeding direct by the Hughli bridge are detained for a few hours in the rest-houses or depôts before resuming the journey to Dhubri. The establishment of a cholera hospital at Kurigram station, Kaunia and Dharla State Railway, was also sanctioned for six months of every year, from January to June, under the supervision of the Civil Hospital Assistant, who was required to medically inspect all coolies *en route* to Jatrapore Ghât for embarkation for Dhubri, and to detain for medical treatment every coolie found to be suffering from cholera.

In July 1888 the necessity for the disinfection of railway carriages used by coolies was brought to the notice of the Railway Authorities.

The question also of securing improvements in respect of the treatment of coolies in railway carriages during conveyance to the places of embarkation for the labour districts came under the consideration of Government, and the then Officiating Superintendent of Emigration, Surgeon-Major W. H. Gregg, submitted the following suggestions:—

(*a*) That railway carriages should be strictly reserved for conveyance of coolies, and a fixed number only be allowed to travel in each carriage.

(*b*) That in view of the established fact that the risk of an outbreak of cholera is greater in proportion to the larger number of coolies, especially junglis, brought together, the number of emigrants under despatch at one and the same time should be limited.

(*c*) That medical inspection of every batch under despatch from Ranigunge or other forwarding station should be insisted on with a view to the detention of every coolie found unfit to proceed.

(*d*) That the long train journey to Dhubri should be divided into stages, and that halts at certain convenient stations, such as (1) Naihati or Kanchrapara, (2) Sara, and (3) Parbatipore, should be provided by despatchers of emigrants to afford opportunities for resting and feeding, the first-named stations answering also as halting places for emigrants travelling to Goalundo for embarkation.

In August 1888 the insanitary state of the coolie depôts at Ranigunge having been brought to the notice of Government, an enquiry was ordered, and Dr. Gregg reported the sanitary arrangements of some 20 to 25 depôts belonging to known persons, and those of many private depôts, to be very defective, and the necessity for bringing all depôts, including those for free labourers, under sanitary protection to be urgent.

In December 1888 the Embarkation Agent at Goalundo was instructed, in accordance with the suggestion of the Chief Commissioner of Assam, to inform by telegram the district officers concerned of the prevalence of cholera among the coolies embarking for conveyance to the tea gardens, so that precautionary measures might be adopted on their arrival at their destination to prevent the spreading of the disease.

As the year under review was drawing to a close, a few cases of cholera among coolies travelling by the Eastern Bengal State Railway were reported, and the Sanitary Commissioner, Bengal, was directed to inspect the depôts or rest-houses from which the infected coolies were despatched, with a view to the introduction of such sanitary improvement as might be possible.

The steps taken by this Government through the police to prosecute offences committed in the course of obtaining recruits are not referred to in the report, as they did not come under the cognizance of the Superintendent: but it may be mentioned that in this respect, as well as in regard to sanitary measures, action has been taken during the year which is of great importance in the interest of organized and protected emigration.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORTS OF THE REFORMATORY SCHOOLS AT ALIPORE AND HAZARIBAGH FOR THE YEAR 1888.

JAILS.

Darjeeling, the 3rd June 1889.

READ—

(1) Letter No. 3438, dated the 6th May 1889, from the Inspector-General of Jails, forwarding the Report of the Administration of the Alipore Reformatory School for the year 1888.

(2) Letter No. 3439, dated the 6th May 1889, from the Inspector-General of Jails, forwarding the Report of the Administration of the Hazaribagh Reformatory School for the year 1888.

Read also—

The Reports for the year 1887, and the orders of Government recorded thereon.

At the Alipore School the number of boys at the commencement of the year 1888 was 108, and at its close 106. 24 were admitted during the year, while 25 were released and 1 escaped through the negligence of a warder, who was put on trial and sentenced to imprisonment. There were no serious offences, and discipline was maintained with a smaller number of punishments than in 1887. Punishment by cutting marks appears to have been in a great measure superseded by direct fines of money earned by the boys. There was a decrease in the number of cases in which penal diet was resorted to as a punishment, while more boys were punished by being locked up in cells. The health of the school was remarkably good. Admissions to hospital fell from 2·73 in 1887 to 2·43 in 1888; and it is satisfactory to observe that there was no casualty during the year.

2. No change has been made in the way in which the day is divided between school and work, except in the hour of lock up, which has been changed from 6-30 to 6 P.M. The boys work for seven hours, and have in addition one hour of compulsory school. They can also attend the night school from 6 to 8 P.M. It is satisfactory to observe that the average number of boys present at the night school increased from 90 in 1887 to 98 in 1888. Here and at Hazaribagh English is taught to the more advanced boys The mark system continued to work well. The number of boys entitled to marks increased, and the average weekly earnings rose from Rs. 2-0-4 in 1887 to Rs 2-4-3. The total amount earned during the year was Rs. 208-6, including payments for extra work, of which Rs. 155-4 were deposited in the Government Savings Bank.

3. Of 64 released boys, concerning whom reports were received, it appears that 9, or 14·06 per cent were in jail. 6 only out of 64 follow the trades they learned at school, 9 boys cannot be traced, and 1 has died; the remaining 45 boys are said to bear a good character.

4. The cost of maintenance fell from Rs. 126-1-10 to Rs. 125-9-6 for each boy, while the cost of diet rose from Rs. 3,156-4-9 in 1887 to Rs. 3,277-14-3, owing to the higher rates paid for articles of rations.

5. The manufactory account shows a profit to the school of Rs. 7,023 against Rs. 8,521-15-6 in 1887. No allowance is made in the account for value of the labour of the boys employed, or for wear and tear of block: it merely shows the balance of actual receipts over actual expenditure. Book-binding, carpentry and tinsmiths' work showed net profits of Rs. 3,270-6-6, Rs 1,132-13-2, and Rs. 1,479-13-3, respectively. The profits on cane-work increased from Rs. 313-5-10 in 1887 to Rs. 335-12-5. Printing was introduced in the middle of December 1888, and the Inspector-General of Jails will be asked to notice the result of the experiment in his report for 1889.

6. The Lieutenant-Governor is glad to observe that the Superintendent, Mr. Kirschner, continues to deserve the praise of the Board of Management and of the Inspector-General of Jails. The acknowledgments of Sir Steuart Bayley are also due to the Board of Management.

7. The number of boys confined in the Hazaribagh School decreased from 232 at the close of 1887 to 223 at the close of 1888. The daily average population was 229·5 against 225 in 1887. The health of the school was not so good as in the two previous years. Admissions to hospital were 133 against

91 in 1887, and the daily average sick 6·67 against 2·93. There were five deaths against one in the previous year.

8. There was a marked improvement in discipline during the year: 123 boys were neither punished nor reported. There were only 367 punishments against 570 in 1887. There was a decrease in the number of punishments under all the heads.

9. The daily routine is the same as at Alipore, except that the hours of the night school differ slightly; the night school at Hazaribagh being held from 6 to 7-30 P.M. It is very satisfactory that out of 229·5, the daily average number, 222 boys on an average attended the night school. The mark system worked well. The average earning per week was Rs. 9-15-2 against Rs. 9-15-1 in 1887. The total earnings came to Rs. 570-6 against Rs. 517-2-9 in the previous year.

10. Reports were received regarding 70 boys; 59 reports were favourable; in 7 cases the whereabouts of the boys were not known; 3 had been re-convicted and sent to jail, and 1 boy was looked upon with suspicion by the police. 14 boys continued to work at the trade they learned in school.

11. The expenditure rose from Rs. 77-9-5 per head in 1887 to Rs. 89-13-10 in 1888. The increase was mainly due to the outlay on new buildings and to the increased price of provisions.

12. The manufacturing account shows a profit of Rs. 3,757-2-11 against Rs. 1,698-12-2 in 1887. The trades taught are carpentry, in which there is a profit of Rs. 2,274 against Rs. 1,445 the previous year, iron-work, shoe-making and tinwork.

13. The Lieutenant-Governor is glad to learn that the official visitors take much interest in the school, and that the work of both Dr. Moorhead, the Superintendent, and of Mr. Hill, the Deputy Superintendent, has been favourably noticed.

ORDER.—Ordered that a copy of the Resolution be forwarded to the President of the Board of Management of the Reformatory School at Alipore for information and communication to the Members of the Board.

Ordered also that a copy of the Reports and a copy of the Resolution be forwarded to the Inspector-General of Jails for information and communication to the Superintendent of the Hazaribagh Reformatory School.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secy. to the Government of Bengal.

RESOLUTION ON THE EMBANKMENT REPORTS FOR THE YEAR 1887-88.

No. 845*I.*

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 7th June 1889.

RESOLUTION.

READ—

The embankment reports for 1887-88.

The budget grant for the maintenance of embankments in Bengal for the year 1887-88 was—

			Rs.
Government embankments	...	...	5,39,728
Tuccavee embankments under contract	...	...	2,75,272
	Total	...	8,15,000

The expenditure during the year was as follows :—

			Rs.
Government embankments	... ...	...	5,95,519
Tuccavee embankments under contract	...	...	1,21,840
	Total	...	7,17,359

2. Since the commencement of the year 1887-88, the Government embankments hitherto classed as Imperial have, under the orders of the Government of India, been provincialized.

3. The accompanying statement shows the lengths of embankments in each civil division and district in Bengal other than Orissa. The D Schedule embankments are maintained at Government expense, and those classed as tuccavee are maintained at the cost of zemindars, either under contract for a fixed term of years, or under annual estimates for repairs. The expenditure on the latter is shown in the remarks column.

4. The total length of D Schedule embankments and the cost of maintaining the same, exclusive of charges for establishment and tools and plant during the year under review as compared with those of the previous year are shown below :—

Years.		Length.		Cost.
		Miles.	Feet.	Rs.
1887-88	... ...	1,127	387	2,54,129
1886-87	... ...	1,184	332	2,90,853

Thus in the length of D Schedule embankments there is altogether a decrease of 56 miles 5,225 feet, occurring chiefly in the Midnapore district, where about 53 miles of embankment in the charge of the Executive Engineer of the Balasore Division have been abandoned.

The decrease in the cost of maintenance is partly due to this decrease in length, but the average cost of maintenance per mile has also fallen from Rs. 245·47 in 1886-87 to Rs. 225·47 in 1887-88.

5. The embankments in the districts of Hooghly, Burdwan, and Midnapore suffered severely from the floods which took place in August 1887. In Midnapore the encroachments of the sea on the Hidgellee sea dyke necessitated the construction of a retired line one mile in length to that work. In the Moorshedabad district also, though the floods were not of unusual height, and no breaches took place, several retired lines were found necessary. In the Rajshahye district, where there are only 6 miles of embankment, the mileage rate of maintenance is as high as Rs 969. This high rate is due to the necessity of securing one of the embankments which protect the town of Rampore Beauleah by a retired line constructed in rear of the point threatened.

6. The embankments of the Burdwan estate, which are included in the list of embankments under Schedule D, were maintained at a cost of Rs. 91,156 against Rs. 1,31,164 in the year previous, a decrease of Rs. 40,008.

7. The length of tuccavee embankments under contract was the same as last year, viz., 478 miles 4,806 feet, but there was an increase in the cost of maintenance of Rs. 10,727 chiefly due to the remodelling of a portion of the Sarun main embankment and to the construction of some protective works and retired lines in the embankments of the Chumparun and Midnapore districts which were damaged by floods.

The average mileage rate is Rs. 178·46 against Rs. 156·06, or Rs. 22·40 more than that of the previous year.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,

Offg. Joint-Secy. to the Govt. of Bengal,
P. W. Dept.

(ACCOMPANIMENT TO BENGAL GOVERNMENT RESOLUTION NO. [illegible], DATED [illegible] JUNE 1889.)

List of Embankments in Bengal, the property of Government, and in charge of Government Officers, showing the length and cost of maintenance during the year 1887-88.

Name of Civil Division.	District.	Miles of Embankment. D Schedule. Miles.	D Schedule. Feet.	Tuccavi. Under contract. Miles.	Under contract. Feet.	Not under contract. Miles.	Not under contract. Feet.	Tuccavi Total. Miles.	Tuccavi Total. Feet.	Total miles of embankment. Miles.	Total miles of embankment. Feet.	Cost of maintenance of D Schedule embankments. Total. Rs.	Rate per mile. Rs.	Cost of maintenance of Tuccavi embankments under contract. Total. Rs.	Rate per mile. Rs.	Amount payable under contract. Rs.	Remarks.
Patna	Mozufferpore	...	...	52	400	24	1,050	76	1,450	76	1,450	...	...	12,105	232·45	10,415	Rs. 19,198 was expended on repairs to the Turki embankment during the year.
	Durbhunga	...	...	...	...	17	3,960	17	3,960	17	3,960	...	...	...	...	...	Rs. 3,140 was expended on repairs to the Bazitpur embankment during the year.
	Sarun	...	...	119	4,222	...	..	119	4,222	119	4,222	...	...	24,003	200·38	23,900	
	Chumparun	...	...	65	...	...		65	...	65	...	...	...	15,880	244·30	12,000	
	Gya	...	...	...	...	1	670	1	670	1	670	...	...	...	...	...	Rs. 1,133 was expended on repairs to the Sukree bund during the year.
	Total	...	...	236	4,622	43	400	279	5,022	279	5,022	...	...	51,988	219·48	47,315	
Bhagulpore	Bhagulpore	...	...	...	...	3	2,960	3	2,960	3	2,960	...	...	...	...	...	Rs. 466 was expended on protective works and repairs to the Chundun embankment at Banka during the year.
	Maldah	2	959	...	...	...		...	...	2	959	151	69·21	...	...	...	Rs 362 was expended on protective works and repairs to the Belwa embankment during the year.
	Purneah	...	...	...	...	2	1,315	2	1,315	2	1,315	...	...	...	...	...	
	Monghyr	...	...	...	...	11	1,320	11	1,320	11	1,320	...	...	...	...	...	Rs. 1,758 was expended on repairs to the Monghyr embankment during the year.
	Total	2	959	...	...	17	315	17	315	19	1,274	151	69·21	...	...	...	
Rajshahye	Rajshahye	5	4,242	...	...	...	...	...	...	5	4,242	5,624	969·08	...	...	...	There was no expenditure on the Chota Manika embankment during the year.
	Bogra	...	...	...	...	...	360	...	360	...	360	...	...	...	...	...	
	Total	5	4,242	...	...	...	360	...	360	5	4,602	5,624	969·08	...	...	...	
Presidency	Moorshedabad	93	...	...	...	...	...	...	...	93	...	30,712	330·23	...	...	...	There was no expenditure on the Tolly's Nullah embankment during the year.
	Nuddea	...	4,000	...	...	...	...	...	...	...	4,000	69	91·08	...	...	...	
	24-Pergunnahs	220	1,312	...	...	2	...	2	...	232	1,342	33,372	151·51	...	...	...	
	Total	314	62	...	...	2	...	2	...	316	62	64,153	204·30	...	...	...	
Burdwan	Burdwan	85	2,470	...	...	1	23	1	23	86	2,493	17,128	200·42	...	...	...	There was no expenditure on the Jehangirpore, Bolorampore and Lakra Embankments during the year.
	Beerbhoom	3	1,320	...	...	...	1,350	...	1,350	3	2,670	*Nil*	...	...	...	...	Rs. 815 was expended on repairs to the Amjola embankment during the year.
	Hooghly	(a)162	1,826	...	...	6	...	6	...	168	1,826	37,824	232·98	...	...	...	Rs. 6,757 was expended on remodelling the Madaria Khall embankment during the year.
	Midnapore	(b)554	68	242	184	...	..	242	184	796	252	1,29,609	233·94	33,477	138·32	55,000	
	Total	805	404	242	184	7	1,373	249	1,557	1,054	1,961	1,84,561	229·24	33,477	138·32	55,000	
	GRAND TOTAL	1,127	387	478	4,806	69	2,448	548	1,974	1,675	2,361	2,54,129	225·47	85,465	178·46	1,02,315	

(a) Exclusive of 2 miles 2,520 feet, Dhanghory D schedule embankment No 26, which was transferred to the charge of zemindars during the year.
(b) This is the correct length, after deducting the portions of embankments already abandoned.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secretary to the Govt. of Bengal,
P. W. Department.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 8th June 1889.

No.	District and date of return.	Rainfall as Sadder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN.			
1	Burdwan June 8, '89	1·08	Heat above normal. The rain has done good. Prices high and stationary.
2	Bankoora „ 8, '89	1·30	Weather—days hot and nights cool with strong winds. Cultivation of sugarcane and sowing of rice proceeding fairly. *Til* and cotton doing well. More rain wanted. Common rice 17½ seers per rupee at Bankoora and 17 seers at Bishenpore.
3	Birbhum „ 8, '89	0·49	Weather—hot and cloudy. No crops to report on. Ploughing going on everywhere. Price of rice remains steady at 13½ seers per rupee.
	Rampur Hât ...	0·95	
4	Midnapur „ 8, '89	1·32	One good shower of rain at head-quarters, but none at sub-divisions during the week. Weather hot and muggy. Ploughing going on and some sowing done. Rain required. Prices of rice nearly stationary. They are as follows:— Rs. A. P. Sudder ... ... 2 9 3 per maund. Contai ... ... 2 8 0 per maund. Tamluk ... ... 3 0 0 per maund. Ghatal ... ... 2 8 0 per maund.
5	Hooghly „ 8, '89	1·05	Weather—hot with occasional wind and rainstorms; rain where it falls is inadequate; indications of heavy rain result in showers. Rain, except in the Jehanabad sub-division, has done good, but more is wanted. Much land has been prepared for rice. Sugarcane has suffered. Prospects of hemp, jute and *aus* rice bad, though where rain has fallen improvement is reported. Price of coarse rice at Sudder and Serampore 12 seers per rupee and at Jehanabad 16 seers.
	Serampore ...	1·60	
	Howrah „ 10, '89	1·53	Weather—moist and warm. More rain wanted. Sugarcane is languishing. Jute and *amun* are being sown. Common rice 12 seers per rupee at Sudder.
	Central Districts.		
PRESIDENCY DIVN.			
6	24-Perghs. June 11, '89	0·35	Weather—very hot and occasionally cloudy. Prospects further improved by the rain of the week. The recently sown rice is beginning to germinate in some parts. The price of rice remains steady at an average of about 13 seers per rupee.
7	Nuddea „ 8, '89	0·61	Weather—seasonable. Rain has done some good to *aus*, jute, indigo and sugarcane. Sowing of *aus* paddy nearly finished. Rain still wanted. A heavy storm has just passed over the station.
	Kooshtea ...	0·62	
	Meherpur ...	0·08	
	Chooadanga ...	0·60	
	Ranaghat ...	0·48	
8	Khoolna „ 8, '89	1·28	Weather—hot. The rainfall of this week has done much good to the standing crops, viz., jute and sugarcane. Sowing of *amun* and *aus* is going on. Lands are being ploughed for transplantation of *amun* seedlings. Prospects somewhat improved.
	Bagirhat ...	1·77	
	Sutkhira ...	0·67	
9	Jessore „ 8, '89	4·05	Weather—very hot with occasional wind and rain. The rain which fell during the latter part of the week has done much good to the crops. Price of rice stationary.
	Jhenidah ...	0·89	
	Magura ...	4·74	
	Narail ...	0·30	
	Bongong ...	0·49	
10	Moorshedabad „ 8, '89	0·52	Weather—hot and close, generally south wind. Fourteen annas of the usual area in the Sudder sub-division has been sown with *aus dhan*. More rain needed in Jungipore.
	Lalbagh ...	0·35	
	Jungipore ...	0·38	
	Kandi ...	1·35	
RAJSHAHYE DIVN.			
11	Dinagepur „ 8, '89	4·03	Weather—cooler with frequent showers. The rain will improve the prospects of the *bhadoi* crop, but has come almost too late for the jute. *Haimanti* rice is being sown in places.
	Thakurgaon ...	5·75	
12	Rajshahye „ 8, '89	2·27	Weather—cloudy; not quite so hot; high winds. Rain has done much good, but has been insufficient in north. Sowing of jute, *til*, *aus* and *amun* going on. Owing to lateness of rain, jute sowings not yet completed, and cannot therefore be estimated. Price of rice averages 13½ seers per rupee.
	Nattore ...	0 28	
	Nowgong ...	0·43	
13	Rungpore „ 8, '89	10·56	The rains have broken, and thunderstorm with high winds and heavy rainfall occur at frequent intervals. *Aus* paddy is fast ripening. It will give a poor return generally. *Amun*, jute and sugarcane are flourishing under the influence of the heavy rainfall. Prices rising slowly.
	Gaibanda ..	5·27	
	Kurigram ...	6·65	
	Nilphamari ...	3·55	
14	Bogra „ 8, '89	3 82	Weather—damp, with occasional heavy showers. Temperature very variable. Generally cloudy. The rain has done good, but it was far too long in coming. The *aus* crop has suffered considerable permanent injury. Price of rice still high: 14½ seers per rupee.
	Sherpore ...	1·18	
	Nowkhilla ...	3·31	
15	Pubna „ 8, '89	1·70	Weather—cloudy, with occasional showers. Owing to fairly general rain, prospects of *aus* and *amun* and of jute and sugarcane are much improved. An average crop of jute may be expected in the Serajgunj sub-division and 12 annas in the Sudder sub-division. Coarse rice sells at 14 seers per rupee.
16	Darjeeling „ 8, '89	4·85	Rain throughout the district during the week. Crops doing well. Sowings of *bhadoi* and jute nearly finished in Terai. Lands are being prepared for *haimanti* rice.
17	Julpigoree „ 8, '89	4·53	Weather—seasonable. Prospects of crops generally good. The rainfall of this week will help the cultivators to prepare land for *haimanti* rice. Cattle disease is rather prevalent in some places. Prices stationary.
	Eastern Districts.		
DACCA DIVN.			
18	Dacca June 8, '89	5·98	Weather—hot and mostly cloudy. A tornado passed over the town of Narain-gunge on the 5th instant. Sowing of paddy crops completed. Jute and paddy sown are coming up well. No special change in the prices of food-grains. Fodder available.
19	Furreedpur „ 8, '89	5·45	Weather—cloudy and cool. Heavy rain on 4th and 5th has been beneficial, but good outturn of rice cannot be expected owing to late sowings. Prospects of jute not very good. Average price of common rice 11½ seers per rupee.
20	Backergunge „ 8, '89	1·21	Weather—very hot. Prospects of crops fair. *Aus* is suffering from want of sufficient rain.
21	Mymensingh „ 8, '89	5·45	Weather—hot and rainy. Heavy rain on the 6th. Prospects of crops continue good.

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts—concld.		
Chittagong Divn.	22	Chittagong ...	......	Report not received.
	23	Noakholly „ 8, '89	5·73	Weather—warm and cloudy with frequent thunder showers. The late rain has done good to the *aus* plants. The extent of sowing of *amun* crops to date is reported to be 15 annas on low lands and 8 annas on high lands.
	24	Tipperah „ 8, '89	7·79	Heavy rain in the afternoons. Weather hot and close between rain. Prospects of crops good. Jute growing vigorously.
	25	Chittagong Hill Tracts. „ 7, 86	2·07	Weather—excessively hot. A shower of rain on the 4th. Rain badly wanted for *jum* crops.
		Hill Tipperah June 8, '89	4·57	Weather—hot. Prospects of crops good. Rice market stationary—14 seers a rupee.
BEHAR.				
Patna Divn.	26	Patna June 8, '89	Nil	Weather—hot with east winds. *Cheena* is still being reaped. Lands are everywhere being prepared for *bhadoi* crops. More rain is much wanted. Prices of food-grains almost stationary.
		Behar ...	0·85	
		Dinapur ...	0·20	
	27	Gya „ 8, '89	Nil	Weather—very hot with high winds. Sugarcane doing well. Lands are being ploughed in some places. Rain wanted for *makai* and *marwa* sowings.
	28	Shahabad „ 8, '89	0·28	Temperature fairly low, but great heat. East winds prevailing. Ground is being prepared for *bhadoi* crop. Sugarcane doing well, but some damage anticipated in parts of Sasseram from recent storm. Prices stationary. Markets well supplied.
		Sasseram ...	·33	
	29	Durbhunga „ 8, '89	Nil	Weather—very hot with high east winds and passing clouds. Rain holds off, and the drought has been proving injurious to *marwa, dhan* and *cheena*. It has also retarded the progress of agricultural operations. Indigo is fair. Common rice is selling on an average at 12 seers to the rupee.
	30	Mozuffurpur „ 8, '89	0·07	Weather—Strong easterly winds. Cloudy in mornings. Occasional storms, but little rain. Rain urgently wanted. Where it has fallen, it has facilitated preparation of lands and sowings. In Hajipur indigo is generally good, though in places two annas has been injured by drought. In the Sudder and Sitamarhi sub-divisions indigo has suffered a good deal from drought, but may revive to some extent with good rain. Rice sown in low lands is also suffering.
		Hajipur ...	0·27	
		Sitamarhi ...	0·61	
	31	Sarun „ 8, '89	0 20	Weather—hot and seasonable. Local storms of dust and heavy rain. *Cheena* and indigo doing well. Sowing of *bhadoi* has commenced.
	32	Chumparun „ 8, '89	0·12	Weather—hot; occasionally cloudy. Rain is badly wanted all over the district. Sowings are retarded. Indigo has suffered from drought. Prices have fallen slightly, but not in the affected tract. A good shower of rain reported in the north-eastern corner of the affected area.
Bhagulpore Divn.	33	Monghyr „ 8, '89	0·31	Weather—hot and sultry with strong east winds and occasional clouds. The rain has done much good to the standing *cheena* crop and has facilitated *bhadoi* sowings. More rain urgently wanted. Prices of food-grains stationary.
		Beguserai ...	0 64	
		Jamooe ...	1·22	
	34	Bhagulpur „ 8, '89	0·49	Weather—hot with strong east winds. Clouds gather and disperse without rain. Prospects fair in the south. The reports from the northern sub-divisions show that up to the 5th instant the continued drought was drying the sowings made on recent rain and retarding all operations. On the 8th heavy rain reported from the north-eastern pergunnahs, which, if general, should mend matters. Prices steady in south, rising in north.
		Banka ...	0·10	
	35	Purneah „ 8, '89	0·01	Weather—cloudy, but rain keeps off most unaccountably; very sultry at times. Crops are generally suffering from insufficient rain, though in places they look well. Not more than an eight-anna *bhadoi* crop all round can be reaped.
		Kissengunge ...	2·78	
		Arrareah ...	0·68	
	36	Maldah „ 8, '89	0·29	Hot muggy weather, interrupted by storms of wind ending in a few drops of rain. Heat at times intolerable. Harvesting of *boro* nearly over. *Bhadoi* sowings not yet complete. Lands are being prepared for late rice, but could not be sown for want of sufficient rain. Indigo benefitted slightly by rain. Jute plants are being damaged by insects at Tulsihata. Rain urgently wanted. Price of rice has risen to 12 and 12½ seers a rupee at Ratua and Shibgunge respectively. In other places it is nearly the same as in the last week.
		Shibgunge ...	0 09	
		Gajole ...	0·49	
	37	Sonthal Perghs. „ 8, '89	0·16	Weather—very hot and sultry; slight rain in the evening of the 6th, cloudy off and on since. Paddy sowings are much retarded for want of rain, and the paddy seedlings and sugarcane are suffering. Prices stationary, but very high. Increase of people employed on the Godda test relief-works, but a large falling off in the number employed on the Jamtara works.
		Pakour ...	0 06	
		Rajmehal ...	0·01	
		Godda ...	0·03	
ORISSA.				
Orissa Divn.	38	Cuttack June 8, '89	0·78	Weather—very hot; evenings cloudy Sowing going on. More rain wanted for ploughing operations. There was a shower of rain on the 4th at Jajipur. Price of rice rising gradually.
	39	Pooree „ 7, '89	Nil	Weather—hot and cloudy. Sowing of *sarad* crop going on. More rain wanted. Price of common rice varies from 14 seers 7 chittacks to 18 seers 7 chittacks per rupee in the Sudder sub-division and from 11 seers 13 chittacks to 15 seers per rupee in the Khoorda sub-division.
	40	Balasore „ 8, '89	Nil	Weather—again getting hot. Lands are still being cultivated and sowings are general. More rain wanted, especially in the north of the district.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
CHOTA NAGPORE.					
South-West Frontier Agency.					
CHOTA NAGPORE DIVN.	41	Hazaribagh	June 8, '89	0·34	Weather—excessively hot. Cloudy on and off for the last two or three days. Sowings of rice, *goondli* and *marwa* commenced in parts of the district. Rain wanted for the seedlings. Prospects of sugarcane have improved where rain has fallen. Scarcity of water felt in many places.
	42	Lohardugga	„ 8, '89	0·02	Weather—very hot and cloudy. Slight rain. Sowing of *gora dhan* is almost completed. Prices steady.
	43	Singbhoom	„ 8, 89	1·70	Weather—stormy at intervals with high wind and rain. Temperature lower. Ploughing and sowing of rice crop in active progress. Prices stationary.
	44	Manbhoom	„ 8, '89	0·89	Weather—very hot. Slight rain here and there during the week, but more is wanted. Paddy is being sown, and sugarcane is growing.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 11*th June* 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 31st MAY 1899.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.			Jowar or Cholum. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	12 4	13 4	16 0		No sale.		11 10	11 10	18 0	14 4	15 6	23 4	...	...	...
2	Bankoora ...	14 0	14 0	15 0	17 0	18 0	20 0	15 0	15 0	19 0	17 8	17 8	20 4	..	...	...
3	Beerbhoom ...	15 0	14 4	15 12	...	..	...	12 0	12 0	16 8	13 0	13 8	21 12	...	...	...
4	Midnapore ...	10 0	10 0	16 0	40 0	40 0	40 0	11 0	11 0	18 8	15 8	15 8	25 0	...	...	...
5	Hooghly ...	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0	12 0	13 0	18 0	...	...	...
	Howrah ...	Not available.			...	...	...	10 0	10 0	14 0	13 12	13 8	18 12	...	...	...
	Central Districts.															
	Calcutta ...	12 12	12 4	13 10	16 9	17 0	23 0	9 11	8 13	11 13	12 15	12 15	17 4	16 13	16 13	19 12
6	24-Pergunnahs	13 4	13 4	16 0	18 0	18 0	22 8	8 0	8 0	8 0	14 0	14 0	19 0	...	...	...
7	Nuddea ...	14 15	14 15	16 6	20 0	20 0	26 10½	12 0	12 0	14 0	14 2½	14 2½	17 6	...	...	...
8	Khoolna ...	...	...	...	...	...	...	10 12	10 11	19 0	13 0	13 0	21 0	...	...	...
9	Jessore ...	11 4	11 4	16 0	...	...	...	11 0	11 0	16 0	14 0	14 0	22 0	...	.	...
10	Moorshedabad	14 8	13 4	16 0	...	...	...	11 8	11 0	16 0	14 0	14 0	20 0	...	...	...
11	Dinagepore ...	14 0	12 0	16 0	24 8	16 0	...	13 4	13 0	21 0	15 8	15 8	23 4	...	...	...
12	Rajshahye ...	15 0	15 12	18 0	19 8	19 8	45 0	10 8	12 0	18 0	12 0	13 8	21 0	...	...	...
13	Rungpore ...	14 8	14 8	17 8	...	...	...	10 8	10 8	13 4	15 3	15 3	20 0	...	...	...
14	Bogra ...	13 8	13 8	15 0	...	...	...	12 0	13 8	15 12	15 0	16 8	26 4	...	...	...
15	Pubna ...	15 0	17 4	18 12	...	...	...	8 0	7 8	8 4	14 4	15 0	22 8	...	...	...
16	Darjeeling ..	10 0	10 0	10 0	6 0	6 0	10 0	6 0	6 0	5 0	11 0	11 0	14 0	...	...	...
17	Julpigoree ...	10 0	10 0	13 0	16 0	16 0	20 0	8 0	0	13 0	16 0	16 0	20 0	...	...	...
	Eastern Districts.															
18	Dacca ...	13 0	13 0	19 0	26 0	26 0	38 0	12 0	12 0	18 0	14 0	14 0	21 0	...	...	...
19	Furreedpore* ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
20	Backergunge ...	...	...	...	...	...	...	10 8	10 8	15 8	12 4	12 0	20 0	...	...	...
21	Mymensingh ...	11 8	12 0	12 0	...	...	...	13 0	13 0	14 0	16 0	16 0	20 0	...	...	...

* Return not received.

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9 seers 13 chittacks and Raneegunge 10½ seers.
B At Rampore Hat retail price of salt 10 seers per rupee.
C In sub-divisions retail prices of salt per rupee are : Ghatal 11¼ seers, Tumlook 8 seers, and Contai 10 seers.
D In Serampore and Jehanabad sub-divisions retail price of salt 10 seers per rupee.
E In sub-divisions retail prices of salt per rupee are :—Baraset and Bussirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
G In sub-divisions retail prices of salt per rupee are :—Kooshtea and Ranaghat 10 seers, Meherpore 10½ seers, and Chooadanga 9 seers.
H In sub-divisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9¾ seers, and Bongong 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 31*st May* 1889.

Indian-corn or Maize. (*Zea Mays.*) Present return.	Next preceding return.	Corresponding return of last year.	Arhar or thur. Cadjan Pea. (*Cajanus indicus.*) Present return.	Next preceding return.	Corresponding return of last year.	Firewood. Present return.	Next preceding return.	Corresponding return of last year.	Salt. Present return.	Next preceding return	Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Next preceding return.	Corresponding return of last year.	Districts.
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
	No sale.		19 0	19 0	23 0	107 0	107 0	120 0	A 9 14⅛	9 14⅜	10 7½	3 11 0	3 11 6	3 10 0	Burdwan.
19 0	21 0	27 0	16 0	16 0	21 8	280 0	280 0	320 0	10 0	10 0	10 4	3 15 0	3 15 0	3 13 6	Bankoora.
...	...	...	..	12 0	15 4	160 0	160 0	160 0	B 10 0	10 0	10 0	3 14 0	3 14 0	3 10 0	Beerbhoom.
...	...	...	14 0	14 0	14 8	160 0	160 0	120 0	C 10 4	10 4	10 6	3 14 0	3 14 0	3 14 0	Midnapore.
...	...	..	13 0	13 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	...	...	12 12	13 0	14 0	100 0	100 0	100 0	10 8	10 8	9 0	3 10 6	3 10 6	3 12 0	Howrah.
															Central Districts.
...	...	20 0	16 8	16 4	17 14	100 0	100 0	99 6	10 8	10 8	10 8	3 9 1	3 9 3	3 8 7	Calcutta.
...	...	.	16 0	17 0	19 0	100 0	100 0	110 0	E 10 8	10 8	10 8	3 8 6	3 8 9	3 8 0	24-Pergunnahs.
...	...	...	16 0	16 0	20 0	...	...	..	2	9 2	9 2	3 14 0	3 14 0	4 0 0	Nuddea.
...	...	...	...	...	...	160 0	180 0	120 0	G 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Khoolna.
...	...	...	18 0	20 0	21 0	160 0	160 0	100 0	H 9 2	9 2	9 0	4 0 0	4 0 0	3 14 0	Jessore.
...	...	...	18 0	18 12	23 0	200 0	200 0	200 0	I 9 0	9 0	11 8	3 14 0	4 0 0	3 8 0	Moorshedabad.
...	...	...	16 12	12 0	10 8	160 0	160 0	160 0	10 0	9 8	9 8	3 15 0	3 15 0	4 0 0	Dinagepore.
...	...	...	18 12	19 1	16 4	240 0	240 0	240 0	J 9 0	8 10	9 0	4 2 8	4 5 4	4 0 0	Rajshahye
...	...	...	13 0	13 0	10 0	120 0	120 0	120 0	K 9 6	9 6	10 12	4 4 0	4 4 0	3 7 0	Rungpore.
...	...	...	...	...	...	90 0	90 0	90 0	9 0	9 0	7 1⅓	4 2 8	4 2 8	5 0 0	Bogra.
...	...	...	17 4	18 12	26 4	200 0	200 0	200 0	L 9 2	9 2	10 0	4 1 0	4 1 0	..	Pubna.
18 0	18 0	20 0	..	...	...	120 0	120 0	120 0	M 7 0	7 0	8 0	5 0 0	5 0 0	...	Darjeeling.
...	.	20 0	11 0	10 0	12 0	128 0	128 0	128 0	N 9 0	9 0	9 0	4 2 0	4 4 0	...	Julpigoree
															Eastern Districts.
...	...	...	16 0	16 0	17 0	160 0	160 0	120 0	O 10 0	10 0	8 8	3 15 0	3 15 0	4 1 0	Dacca.
...	...	...	...	...	...	...	...		...	.	...	...	...	...	Furreedpore.
...	..	...	...	...	...	120 0	120 0	120 0	P 10 0	9 9	10 0	...	4 2 0	5 12 0	Backergunge.
...	...	...	16 0	16 0	11 8	...	...	...	Q 9 12	10 0	8 8	3 15 0	3 15 0	4 8 0	Mymensingh

I In sub-divisions retail prices of salt per rupee are :—Lalbagh 9½ seers, Jungipore 10 seers, and Kandi 9½ seers.
J In sub-divisions retail prices of salt per rupee are :—Nattore 9¼ seers and Nowgong 9 seers 9 chittacks.
K In sub-divisions retail prices of salt per rupee are :—Nilphamari 10 seers, Gaibanda 8 seers, and Kurigram 9 seers.
L At Serajgunge retail price of salt 10½ seers per rupee.
M At Silliguri retail price of salt 9 seers per rupee.
N At Fallacutta in the Alipore sub-division retail price of salt 8 seers per rupee.
O In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8 seers 14 chittacks, and Naraingunge 10 seers.
P In sub-divisions retail prices of salt per rupee are :— Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
Q In sub-divisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (*retail*) *of Food-grains, Firewood and Salt in the Head-quarter*

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 8	...	...	...	10 0	11 0	13 0	13 8	12 0	18 12	...	...	...
23	Noakholly ...	...	...	...	...	...	...	12 0	12 0	19 0	13 0	13 0	21 0	...	...	...
24	Tipperah ..	12 0	12 0	12 8	...	...	...	13 0	13 0	17 8	14 0	14 0	22 0	...	...	..
25	Chittagong Hill Tracts.	...	...	...	...	...	...	9 6	10 0	13 5	10 0	11 6	15 4	...	...	...
	Hill Tipperah...	6 0	6 0	8 0	...	...	...	8 0	8 0	10 0	14 0	15 0	22 0	...	...	...
	BEHAR.															
26	Patna ...	15 8	15 8	19 0	20 0	22 0	28 0	10 8	10 0	11 8	13 8	13 8	20 0	21 0	..	18 0
27	Gya ...	15 8	16 8	17 0	21 0	23 0	25 0	8 8	8 8	10 0	12 12	12 12	16 0	...	...	...
28	Shahabad ...	14 0	14 8	17 0	20 0	20 0	25 8	8 0	8 8	9 0	12 0	13 8	18 0	..	...	...
29	Durbhunga ...	14 4½	13 11	16 8	18 4⅜	19 6	31 0	10 4⅜	9 2	13 8	13 4	12 9	20 0	11 6⅜	17 2	...
30	Mozufferpore ..	13 0	12 0	16 0	16 0	16 0	25 0	9 0	9 0	12 0	12 0	11 0	18 0	...	...	...
31	Sarun ...	13 8	13 8	17 2	19 0	19 8	25 8	8 8	8 8	9 8	12 2	12 2	19 12	...	...	...
32	Chumparun ...	13 0	11 8	17 0	18 0	18 0	30 0	7 0	7 0	9 0	11 0	10 0	16 8	...	...	...
33	Monghyr ...	16 4	16 4	18 9	21 0	21 0	33 9	10 8	10 8	13 14	11 9	11 9	16 12	...	...	.
34	Bhagulpore ...	15 7	15 2	18 4	17 10	18 15	26 8	10 2	11 9	15 2	12 10	13 4	17 10	...	...	..
35	Purneah ...	16 0	20 0	18 0	...	...	..	13 0	16 0	19 0	16 0	17 0	21 0	...	...	...
36	Maldah ...	15 0	15 0	18 0	...	...	...	10 0	10 0	14 0	14 0	13 13	21 0	...	...	...
37	Sonthal Perghs.	12 2	12 0	13 0	....	...	...	12 0	12 0	16 0	14 0	14 0	20 0	...	...	...
	ORISSA.															
38	Cuttack ...	10 8	10 8	10 8	...	...	...	10 8	10 8	11 13	13 2	14 7	18 6	...	...	...
39	Pooree ...	11 13	11 13	14 7	...	...	...	10 8	11 13	13 2	15 12	15 12	21 0	...	...	...
40	Balasore ...	17 0	17 0	15 0	18 0	18 0	18 0	11 0	12 0	14 0	16 0	17 0	27 0	...	...	...
	CHOTA NAGPORE. *South-West Frontier Agency.*															
41	Hazaribagh ...	13 0	12 4	15 0	17 0	17 0	19 0	8 0	8 0	8 0	13 8	13 8	15 0	Not procurable.		
42	Lohardugga ...	(Red) 12 8	(Red) 12 0	13 0	13 0	14 0	...	11 12	12 0	15 0	ordinary 13 0, coarse 14 0	13 8	18 0	...	...	...
43	Singbhoom ...	14 0	11 0	14 0	16 0	16 0	16 0	14 0	12 0	16 0	22 0	15 0	20 0	...	..	...
44	Manbhoom ...	21 0	22 0	23 0	12 0	.	24 0	12 0	13 0	14 0	16 4	19 0	21 0	...	...	...

R At Cox's Bazar retail price of salt 8 seers per rupee.
S At Fenny Hât retail price of salt 8 seers per rupee.
T At Nowada retail price of salt 8 seers per rupee.
U In sub-divisions retail prices of salt per rupee are:—Buxar 10 seers, Sasseram 10 seers, and Bhabuah 9½ seers.
V In sub-divisions retail prices of salt per rupee are:—Madhubani 10 seers and Tajpore 11 seers.
W At Hajipore retail price of salt 10 seers per rupee.

CALCUTTA,
The 11*th June* 1889.

Station Bazars of the Districts of Bengal on the 31*st May* 1889—(concluded).

Indian-corn or Maize. (*Zea Mays.*) Present return.	Next preceding return.	Corresponding return of last year.	Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*) Present return.	Next preceding return.	Corresponding return of last year.	Firewood. Present return.	Next preceding return.	Corresponding return of last year.	Salt. Present return.	Next preceding return.	Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Next preceding return.	Corresponding return of last year.	Districts.
															Eastern Districts—concluded
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	100 0	100 0	110 0	R 9 0	9 0	9 0	4 0 0	4 0 0	3 14 0	Chittagong.
...	...	...	8 0	8 0	...	...	...	...	S 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
...	...	...	9 0	9 0	10 0	...	...	...	9 0	8 0	8 0	4 4 0	4 6 0	4 10 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	......	......	...	Chittagong Hill Tracts
...	...	...	8 0	8 0	12 0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah.
															BEHAR.
18 0	...	28 8	20 0	21 0	29 0	130 0	130 0	120 0	10 0	10 0	9 12	3 12 3	3 12 3	3 12 0	Patna.
...	...	...	16 0	18 0	20 0	200 0	200 0	160 0	T 9 2	9 2	9 8	4 2 0	4 2 0	4 4 0	Gya.
...	...	...	13 0	13 0	14 0	160 0	160 0	140 0	U 10 0	10 0	10 0	3 15 0	3 15 0	......	Shahabad.
16 0	16 0	31 0	18 8¾	18 4	25 0	137 0	160 0	160 0	V 11 6¾	9 14	10 0	3 8 0	4 0 9	3 10 0	Durbhunga.
16 0	16 0	24 0	18 0	20 0	27 8	160 0	160 0	160 0	W 10 0	10 0	10 0	3 12 0	3 12 0	3 12 0	Mozufferpore.
17 8	18 8	23 8	20 0	17 8	27 4	160 0	160 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 6	Sarun.
15 8	15 8	25 0	17 8	20 0	29 8	160 0	160 0	160 0	X 9 8	9 8	9 0	4 1 0	4 1 0	4 0 0	Chumparun.
9 8	16 12	21 0	16 12	16 12	23 1	147 0	147 0	126 0	Y 9 8	10 0	10 0	3 12 6	3 13 0	3 12 9	Monghyr.
16 6	16 12	25 4	17 0	18 15	25 4	176 12	176 12	151 8	10 1	10 1	10 1	3 13 0	3 13 0	5 13 0	Bhagulpore.
...	...	...	...	...	14 0	...	...	120 0	Z ...	...	8 8	......	4 7 0	4 8 0	Purneah.
...	...	...	...	...	...	160 0	160 0	120 0	9 0	9 0	9 8	4 2 0	4 0 0	4 0 0	Maldah
17 0	17 0	28 0	21 0	22 0	24 0	200 0	200 0	200 0	9 0	9 0	9 0	4 3 0	4 3 0	4 0 0	Sonthal Perghs.
															ORISSA.
...	...	...	15 12	19 11	15 12	80 0	80 0	80 0	8 0	8 0	10 0	4 7 0	4 7 0	3 14 0	Cuttack.
...	...	...	14 7	14 7	15 12	80 0	80 0	80 0	Z1 10 8	10 8	10 8	3 8 0	3 8 0	3 8 0	Pooree.
...	...	...	...	...	...	160 0	160 0	200 0	Z2 9 8	10 0	9 8	4 0 0	3 15 0	4 2 0	Balasore.
															CHOTA NAGPORE
															South-West Frontier Agency
14 8	15 0	19 0	15 0	17 0	18 0	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 6 0	4 8 0	Hazaribagh
16 0	16 0	18 0	big 12 0, small 14 8	big 12 0, small 14 0	small 22 0	140 0	140 0	140 0	7 8	8 0	8 0	5 0 0	4 15 0	..	Lohardugga.
22 0	...	...	16 0	15 0	20 0	200 0	200 0	240 0	7 0	7 0	6 0	5 8 0	5 8 0	6 0 0	Singbhoom.
25 0	25 0	24 0	15 0	16 0	22 8	200 0	200 0	240 0	Z3 9 0	8 0	8 0	4 2 0	4 4 0	4 6 0	Manbhoom

X At Bettiah retail price of salt 9½ seers per rupee.
Y In sub-divisions retail prices of salt per rupee are :—Begusarai 9¼ seers and Jamui 9 seers.
Z In sub-divisions retail prices of salt per rupee are — Kishongunge 8 seers, Arraroah (at Raniganje) 9¼ seers.
Z1 In Khoorda sub-division retail price of salt 10 seers per rupee.
Z2 At Bhudruck retail price of salt 9 seers per rupee.
Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 13 11	2 13 7	2 10 9	2 2 7	2 1 10	1 7 9	4 2 11	4 4 2	3 2 5	2 13 2	2 13 4	2 1 4
2	Serajgunge ...	2 8 0	2 5 0	1 14 0	...	...	...	4 0 0	3 12 0	3 6 0	2 14 0	2 11 0	1 15 0
3	Dacca ...	3 0 0	3 0 0	2 0 0	1 8 0	1 8 0	1 0 0	3 4 0	3 4 0	2 2 0	2 12 0	2 12 0	1 14 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	2 0 0	2 12 0	2 12 0	1 12 0
5	Chittagong ...	3 9 0	3 9 0	3 6 0	...	...	...	4 0 0	4 0 0	2 12 0	2 10 0	3 4 0	2 3 0
6	Patna ...	2 8 0	2 10 6	2 2 0	1 15 0	1 12 6	1 6 0	3 12 0	3 14 0	3 0 0	2 15 0	2 15 0	1 15 0
7	Balasore ...	2 4 0	2 4 0	2 8 0	3 0 0	3 0 0	3 0 0	3 5 0	3 4 0	2 12 0	2 4 0	2 1 3	1 7 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	2 4 0	2 4 0	1 14 0
9	Cuttack ...	3 10 0	3 10 0	3 10 0	...	...	...	3 10 0	3 10 0	3 4 0	3 0 0	2 10 0	2 2 0

CALCUTTA;
The 11th June 1889.

in the undermentioned Marts of Bengal during the fortnight ending 31*st May* 1889.

Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur, Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 5 8	2 4 9	1 10 8	...	...	1 12 0	2 3 0	2 3 7	1 15 6	0 5 6	0 5 6	0 6 3	3 9 1	3 9 3	3 8 7	Calcutta.
3 2 0	3 2 0	2 10 0	...	...	...	...	...	...	...	...	...	3 13 0	3 13 0	3 14 0	Serajgunge.
2 12 0	2 12 0	2 1 0	...	...	...	2 6 0	2 6 0	2 0 0	0 4 0	0 4 0	0 5 0	3 15 0	3 15 0	4 4 0	Dacca.
3 0 0	3 0 0	2 4 0	...	...	...	3 2 0	3 2 0	2 8 0	0 10 0	0 10 0	0 10 0	3 12 0	3 12 0	4 0 0	Naraingunge
4 8 0	3 2 0	2 6 0	...	...	...	...	...	...	0 7 0	0 7 0	0 5 0	4 0 0	4 0 0	3 14 0	Chittagong.
1 14 0	1 14 0	1 6 0	2 3 0	...	1 6 6	1 15 0	1 12 6	1 6 0	0 5 0	0 5 0	0 5 0	3 12 3	3 12 3	3 12 0	Patna.
3 0 0	2 12 0	2 6 0	...	.	..	...	...	..	0 5 0	0 4 6	0 4 0	4 0 0	3 15 0	4 2 0	Balasore.
...	..	..	..	..	...	...	...	...	...	...	...	3 8 0	3 8 0	3 8 0	Pooree.
2 0 0	2 0 0	2 0 0	...	...	...	2 5 0	2 0 0	2 5 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	3 14 0	Cuttack.

Published for general information.

P. Nolan,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of

DISTRICT.	Representative stations.	STATION OBSERVATIONS. Air Pressure. Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Temperature. Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Pooree	Pooree	29·838	29·649	29·759	29·770	—	93·1	72·1	89·2	79·2	84·2	—	89	—	4·0	—	1·28
Pooree	Gopalpore	29·838	29·632	29·742	29 792	+·031	91·7	77·3	88·0	81·3	84·7	+0·0	81	—	1·7	—1·4	1 27
Pooree	False Point	29·847	29·662	29 751	29·774	+·029	100·9	73·1	90 9	79·6	85·3	—0·1	90	+9	5·8	+1·3	1·13
Cuttack	Cuttack	29·793	29·570	29·689	29·770	+·037	110·9	71·8	103·4	80·8	92·1	+1·7	71	+6	2·9	—1·1	3·10
Balasore	Balasore	29·803	29·548	29·699	29·758	+·011	108·5	71·8	100·2	79 8	90·4	+4·2	80	—	0 9	—	4·19
South-West Midnapore and South 24-Pergunnahs.	Saugor Island	29·859	29·630	29·751	29·777	+·030	98·2	71·5	93·5	82·6	88·1	+2 4	81	+1	6·8	+1·3	2·13
Midnapore	Midnapore	29·689	29·402	29·590	29·740	—·003	114 4	69·2	105·1	79·4	92 3	+4 8	71	—	1·7	—	2·63
24-Pergunnahs, Howrah and Hooghly.	Calcutta	29·834	29·609	29·731	29·753	+·013	101·9	69 2	94·9	79 2	87 1	+2·0	78	+2	3 0	—1·5	3·52
Burdwan	Burdwan	29·720	29·497	29·627	29·726	—·009	113 7	72·4	103 6	80·0	91 8	+4 6	70	+3	2·8	—1·3	4·36
Bankoora	Bankoora	29·511	29·286	29 408	29·706	—	115·1	69·6	106·6	80 1	93 4	—	68	—	2·3	—	3·80
West Burdwan and Beerbhoom.	Ranigunge	29·503	29·264	29·400	29·705	—·003	115·5	69 9	107·0	80 7	93·9	+5·0	60	—	1 3	—	4·90
Moorshedabad	Berhampore	29·752	29·522	29·600	29 726	—·014	113·2	69 8	102·9	78 5	90 7	+3·7	78	+6	3·0	—2·4	7·74
Nuddea	Krishnagore	29 788	29·572	29 696	29 762	+·019	110·8	70·3	101 8	79·2	90 5	+4 6	72	—	3·1	—	1·42
Jessore and Khoolna	Jessore	29 817	*29·596	29·723	29·756	—·003	107·8	73·9	99·6	80·1	89·9	+4·3	79	+3	4·3	—	2·14
Chittagong	Chittagong	29·846	29·632	29·715	29 834	+·027	93·2	70·0	90 0	77 9	83 9	+1 7	80	0	5·3	+0·2	5·02
Chittagong Hill Tracts	Demagri						Observations not received.										
Backergunge	Barrisal	29·880	29·671	29·781*	29·793*	+·024	94 8	73·4	92·6	78 8	85·9	+2·8	81	—	4 7	—	2·58
Noakholly	Noakholly	29·780	29·650	29·761	29 804	+·026	92 5	70·8	91 3	78·3	84·9	+3 0	76	—	6 1	—	5·22
Furreedpore	Furreedpore	29 808	29 608	29 719†	29 759†	—·008	100 0	67 9	95 2‡	77·0†	86 1	+2·1	8 †	—	3 0†	—	2·87†
Dacca	Dacca	29·870	29·620	29 757	29·779	+·009	97·2	68 2	93·3	76·9	85 1	+1·7	80	0	6 0	+0·7	5·18
Tipperah	Commillah	29 955	29·652	29·773*	29 808*	+·013	94·3	68·8	92 2	76 8	84 5	+1·1	81	—	4·0	—	6·66
Mymensingh	Mymensingh	29 824	29·573	29 722	29·780	—·017	101·8	67 6	91·8	73 4	82 6	+2·3	83	—	6 3	—	7·82
Bogra	Bogra	29 785	29·530	29 673	29·736	—·011	110 3	71·5	99 4	76 1	87·8	+3·6	74	—	2 0	—	0 88
Pubna	Serajgunge	29 810	29·558	29·705	29 752	—·016	106 6	51·9	94 5	74 8	84 7	+2 4	83	—	5 3	—	7·35
Rajshahye	Rampore Beauleah.	29·767	29 521	29 663	29·753	—·019	109·0	72 2	100 7	78 6	89·7	+5 5	75	—	1 9	—	2·20
Maldah	Maldah	29·794	29·503	29 639	29·720	—	110·0	?	104·2*	78·4‡	92·0§	—	72	—	1 8	—	1·28
Dinagepore	Dinagepore	29·747	29·464	29·625	29 745	+·004	108 1	70 1	99 0	76·1	87 6	+5·1	74	—	5 8	—	1·25
Rungpore	Rungpore	29 782	29 490	29 656*	29 783*	—·003	103 8	68 7	93·1	73·9	83·5	+3 3	81	—	4·7	—	3·47
Julpigoree and Cooch Behar.	Julpigoree	29·612	29·329	29·484	29 774	—·022	96 9	64 9	90 1	69 9	80·1	+1·1	82	—	4 1	—	6·78
Darjeeling Hill Tracts	Darjeeling	23 044	22·858	22·961	—	+·016	67 1	40 1	64·1	52·4	58·3	+1 7	89	+2	6·9	+0·3	5·29
Purneah and North Bhagulpore.	Purneah	29·731	29·465	29 611	29·737	—·002	108·3	69·4	100 6	76·4	88·5	+4·8	69	0	1 6	—	2·88
Mozufferpore	Mozufferpore						Observations suspended.										
Durbhunga	Durbhunga	29 666	29·412	29 556	29·723	—·009	105 9	70·3	100·1	79·7	89·9	+4·6	63	—3	0 9	—1·3	0·21
Chumparun	Motihari	29·587	29·316	29·480	29·717	—·001	108 8	64·8	101·1	74·0	89 9	+2·9	62	—	2·3	—	0·48
Sarun	Chupra	29 613	29·363	29·510	29 702	—·016	113 2	70·7	105 4	78 1	91·8	+1·0	49	—	1 1		0·28
Shahabad	Dehree	29 461	29 225	29 355*	29 703*	+·006	114·5	67 5	108·5‖	80·2*	94 3‖	+4 0	36*	—	1·7*	—	0·10
Shahabad	Buxar	29 556	29 320	29 459	29 690	—·004	111·9	72 8	104 8	79·7	92 3	+2 6	37	—	1·7	—	0·18
Shahabad	Arrah	29 617	29 392	29·520	29·716	+·013	113 4	71·2	105·7	78·1	91·9	+2·7	46	—	1·2	—	0·96
Gya	Gya	29 432	29·224	29 345	29 717	+·024	114·6	72·8	108·0	81·9	95·2	+3 8	56	+7	2 9	+0·3	Nil
Patna	Bankipore	29 635	29 377	29·524	29·706	—·006	113·7	70·7	105·5	78·6	92 1	+3 2	54	—1	1 6	—	2·89
South Bhagulpore and Monghyr.	Bhagulpore	29 655	29 398	29 542	29·705	—·014	109·8	70·0	101·9	77 7	89·8	+3·9	66	—	1·6	—	1·76
Sonthal Pergunnahs	Naya Doomka	29·307	29·054	29 217	29·707	—·015	113·4	69·8	104·9	80·4	92 6	+5·1	58	—	0·2	—	3·05
Hazaribagh	Hazaribagh	27 845	27·654	27 761	29 719	+·027	109·3	68 2	102 6	78 2	90 4	+4·3	32	—10	1·5	—2·0	0·83
Lohardugga; Manbhoom	Ranchee	27 728	27·541	27 638	29·718	+·018	107·5	68·4	101·7	77 6	89·7	+4·4	42	—	2·3	—	0·80
Singbhoom	Chyebassa	29 074	28·856	28 974	29·725	+·019	115·0	73 0	107·5	81·4	94 4	+3 6	51	—	1·6	—	1·73
Assam	Sibsagar	29 635	29 342	29 495	29·837	+·009	92·1	64·8	82·4	71·5	77·0	—1·7	95	+13	9·5	+1·6	23·72
Assam	Dhubri	29 782	29 500	29 682	29·781	—·008	95 3	66·9	86·9	73·0	80·0	+0·5	86		6·6	+2·1	5·71
Assam	Silchar	29·857	29·596	29·729	29·836	+·022	93·5	64 8	87·9	71·9	79 9	—0·3	89		7·5	+1·4	23·86

* Mean of 30 days.
† „ of 27 „
‡ „ of 21 „
§ „ of 20 „
‖ „ of 29 „

Bengal for the month of May 1889.

DISTRICT OBSERVATIONS.												
RAINFALL.												
Of month.					Since 15th May 1889.					Representative stations	DISTRICT.	METEOROLOGICAL DIVISION.
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
1·13	3·02	−1·89	3·8	5·8	1·13	1·72	−0·59	3·8	3·2	Pooree ... Gopalpore ... False Point ...	Pooree	ORISSA.
2·73	3·55	−0·82	6·2	6·6	2·02	3·09	+0·53	5·6	4·1	Cuttack ...	Cuttack	
3·96	4·76	−0·80	7·0	8·5	3·36	2·54	+0·82	5·8	4·2	Balasore ..	Balasore	
3·00	4·80	−1·80	4·0	8·2	3·00	2·27	+0·73	4·0	4·1	Saugor Island .	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
2·68	5·19	−2·51	6·3	8·0	2·52	2·13	+0·37	5·7	3·7	Midnapore ...	Midnapore	
2·10	5·67	−3·57	5·1	9·7	2·05	2·63	−0·58	4·7	4·9	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
2·99	5·05	−2·06	3·3	8·3	2·99	2·62	+0·37	3·3	4·3	Burdwan ...	Burdwan	
3·21	3·91	−0·70	5·5	9·7	3·07	2·07	+1·00	5·3	4·0	Bankoora .	Bankoora	
4·20	3·41	+0·88	4·3	8·1	4·29	1·98	+2·31	4·3	4·4	Ranigunge ...	West Burdwan and Beerbhoom.	
5·15	5·27	−0·12	5·2	8·3	4·87	3·11	+1·76	4·3	4·8	Berhampore ...	Moorshedabad	
2·34	6·37	−4·03	5·4	9·2	1·54	3·52	−1·98	3·6	5·2	Krishnagore ..	Nuddea	
2·02	6·79	−4·77	6·0	10·6	1·58	3·28	−1·70	5·0	5·5	Jessore ...	Jessore and Khoolna ...	
	10·90			12·2		5·25			5·9	Chittagong ..	Chittagong	EAST BENGAL.
5·47	9·53	−4·06	6·0	13·6	3·07	4·27	−1·20	3·5	6·4	Demagri .	Chittagong Hill Tracts	
3·63	7·66	−4·03	6·0	12·4	3·59	3·88	−0·29	5·5	6·2	Barrisal	Backergunge	
5·52	10·40	−4·88	10·0	13·2	4·40	4·75	−0·35	7·0	6·4	Noakholly ...	Noakholly	
4·56	8·59	−4·03	8·3	11·8	2·74	4·33	−1·59	5·3	5·8	Furreedpore ..	Furreedpore	
8·42	8·72	−0·30	12·8	12·9	5·63	3·90	+1·73	8·3	6·0	Dacca ..	Dacca	
6·16	10·26	−4·10	10·5	13·5	3·27	4·27	−1·00	7·3	6·4	Commillah ..	Tipperah	
8·32	9·77	−1·45	12·8	12·8	5·04	4·95	+0·09	7·8	6·5	Mymensingh ..	Mymensingh	
2·32	7·79	−5·47	8·3	10·9	1·76	4·56	−2·80	5·5	5·7	Bogra ...	Bogra	NORTH BENGAL.
5·94	7·11	−1·17	11·0	11·1	3·79	3·83	−0·04	6·0	5·6	Serajgunge ..	Pubna	
1·20	6·18	−4·98	4·0	9·1	0·76	3·71	−2·95	2·7	5·0	Rampore Beauleah.	Rajshahye	
0·70	4·59	−3·89	1·5	7·5	0·70	2·83	−2·13	1·5	4·0	Maldah ...	Maldah	
0·73	6·45	−5·72	2·4	8·3	0·73	4·39	−3·66	2·4	4·5	Dinagepore ...	Dinagepore	
3·87	11·23	−7·36	7·8	12·5	3·55	7·40	−3·85	6·8	6·7	Rungpore ...	Rungpore	
8·17	13·40	−5·23	11·6	16·0	6·13	8·93	−2·80	6·6	8·7	Julpigoree ...	Julpigoree and Cooch Behar.	
8·07	11·09	−3·02	19·0	16·5	5·45	6·86	−1·41	8·6	9·0	Darjeeling ..	Darjeeling Hill Tracts ..	
2·00	4·94	−2·94	1·8	6·7	2·00	3·05	−1·05	1·8	3·2	Purneah ..	Purneah and North Bhagulpore.	NORTH BEHAR.
0·66	2·46	−1·80	3·0	4·3	0·66	1·36	−0·70	3·0	2·1	Mozufferpore ..	Mozufferpore	
1·52	2·63	−1·11	2·0	4·5	1·52	1·39	+0·13	2·0	2·0	Durbhunga ...	Durbhunga	
0·90	2·59	−1·69	2·5	4·7	0·90	1·35	−0·45	2·5	2·3	Motihari ...	Chumparun ...	
1·13	2·02	−0·89	2·3	3·5	1·13	1·09	+0·04	2·3	1·6	Chupra ...	Sarun	
0·35	1·36	−1·01	2·0	2·9	0·35	0·90	−0·55	2·0	1·6	Dehree ... Buxar ... Arrah ...	Shahabad	SOUTH BEHAR.
0·34	1·76	−1·42	2·0	3·3	0·34	1·37	−1·03	2·0	1·9	Gya .	Gya ...	
2·05	2·09	−0·04	2·8	3·5	2·05	1·43	+0·62	2·8	2·0	Bankipore ...	Patna	
1·63	2·45	−0·82	2·6	4·3	1·63	1·61	+0·02	2·6	2·2	Bhagulpore ...	South Bhagulpore and Monghyr.	
2·35	3·84	−1·49	3·0	6·2	2·31	3·43	−1·12	2·7	3·3	Naya Doomka .	Sonthal Pergunnahs .	
1·20	2·54	−1·34	3·8	5·5	1·20	1·57	−0·37	3·8	3·0	Hazaribagh ..	Hazaribagh	CHOTA NAGPORE.
1·04	2·49	−1·45	4·3	5·9	1·04	1·84	−0·80	4·3	3·4	Ranchee ...	Lohardugga ...	
1·71	2·77	−1·06	4·5	6·6	1·70	1·66	+0·04	4·5	3·0	Ranchee ...	Manbhoom	
1·96	4·17	−2·21	3·0	8·8	1·96	2·57	−0·61	3·0	4·9	Chyebassa ..	Singbhoom .	
......	......	......	......	......	......	......	......	......	......	Sibsagar.	Assam	ASSAM.
......	......	......	......	......	......	......	......	......	......	Dhubri		
......	......	......	......	......	......	......	......	......	......	Silchar		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khurdah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		False Point ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03	...	0·01	...	...	...
		Gop ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack ...	Jagatsingpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·61	...	...	...
		Banki ...	0·15	...	...	...	...	...	...	...	...	...	...	...	...	0·06	...	...	...	0·11	...	0·08
		Cuttack ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·30	...	0·07	...
		Kendrapara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·04	0·04	...	0·65
		Jajpore ...	...	...	...	...	0·36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·55
		Dharmsalla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...
		Sallpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·80	0·79	...	0·90
	Balasore ...	Chandbali ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·70	...	...	0·10	...	...
		Bhuddruck ...	...	...	0·28	...	...	...	...	...	...	...	...	...	...	...	...	0·70	...	0·14	...	0·30
		Sorah ...	...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	0·40	...	0·06	...	...	...
		Balasore ...	...	...	0·18	...	0·56	...	...	...	...	...	...	...	...	0·19	0·33	...	0·34	...	...	...
		Jellasore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·60
		Baripodah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·02	...	0·40	...	...	...	0·33
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·75
		Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03	...	...	...	...	1·45
		Tumlook ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	0·60
		Midnapore ...	...	...	...	...	...	...	...	0·15	...	...	...	...	...	...	0·22	...	...	...	...	0·53
		Ghatal ...	...	...	0·30	...	...	...	...	...	...	...	...	...	...	...	0·06	0·06	...	...	...	0·60
		Kukrahaty ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·78	...	...	...	...	0·55
		Herta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·23	...	...	...	...	0·32
		Bhagwanpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·31	...	...	...	...	...
		Garbeta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...
	24-Pergunnahs	Diamond Harbour.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·02	...	...	...	...	0·80
		Canning Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·75	...	...	...	...	0·64
		Alipore Jail ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	0·60
		Barrackpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·60	...	...	...	0·52	...
		Dum-Dum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	0·71
		Baraset ...	...	0·08	...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...	0·54	...
		Buseerhat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	...	...	0·55
	Howrah ...	Howrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05	...	...	...	...	0·76	...
		Mohesreka (*Oolooberiah*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	0·29
	Hooghly ...	Serampore ...	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	0·47	...	...	...	...	0·64
		Hooghly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	0·07	...	...	...	...	0·94
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·37
	Burdwan ...	Culna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	...	...	1·90
		Burdwan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·16	...	...	...	...	...
		Cutwa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raneegunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	...	...	0·02
		Mankur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·05	...	...	...	...	...
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·61	0·60	...	...	...	0·05
		Bishenpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	0·94	...	...	...	...
		Mahara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·57	...	...	...	...	...	...
		Khatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·52	1·35	...	...	...	0·13
		Indas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·93	0·37	...	...	...	...	0·13
		Kotalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Auda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08	0·10	...	...	...	...	...
		Gangajalghati	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·43	...	...	...	...	...
		Raipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	0·15	...	...	...	0·12
		Sonamukhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·85	0·20	...	...	...	...
	Beerbhoom ..	Bh. Soory ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hetampore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rampore Haut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·80	...	...	...	...	...
		Bolpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·70	...	...	...	...	...
		Murarai ...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...	...	...	...	...
	Nuddea ...	Ranaghat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	0·83
		Kishnaghur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	...	0·10	...	...	1·00
		Ghoosdanga ...	...	...	...	...	...	...	...	...	0·65	...	...	...	...	...	1·25	...	0·05	...	...	...
		Meherpore ...	...	...	...	...	...	...	...	...	0·60	...	...	0·08	...	0·64	0·25	...	...	...	0·10	...
		Kooshtea ...	0·11	...	0·20	...	...	...	0·58	...	0·46	...	...	...	...	0·41	0·40	0·86	...	...	...	...
	Khoolna ..	Satkhira ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·26	...
		Bagirhat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·28	...	...	...	...	0·36
		Khoolna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	0·12
	Jessore ...	Narail ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·55	...	...	...	...	...
		Jessore ...	...	...	...	...	...	...	...	...	0·08	...	...	...	...	...	0·48	...	...	...	...	...
		Jhenidah ...	...	...	...	...	...	0·12	...	...	0·67	...	...	...	...	1·31	...	0·19	...	...	...	...
		Magoorah ...	...	...	...	...	...	0·23	0·84	...	0·34	...	...	...	...	...	0·72	0·06	...	...	...	...
		Bongong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·41	...	...	...	...	0·55
	Moorshedabad	Kandi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...	...	0·57
		Berhampore ...	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	0·50	4·27	...	...	...	[illegible]
		Lalbagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·64	2·96	...	...	...	...
		Azimgunge ...	...	...	...	...	...	...	...	0·56	...	...	...	...	...	...	0·04	2·26	...	...	...	...
		Jungipore ...	...	...	...	...	...	...	0·17	0·22	...	...	...	...	...	...	...	0·87	...	...	...	...
		Lalgola ...	...	...	...	...	...	...	0·45	...	...	...	...	...	...	...	...	1·15	...	...	...	...
		Jiagunge ...	...	...	...	...	...	...	...	0·62	...	...	...	...	...	...	0·02	1·80	...	...	...	...
		Akhriganj ...	...	...	...	...	...	...	0·10	...	...	...	...	...	...	...	...	0·38	...	...	...	...
		Patkabari ...	...	...	...	...	...	...	...	0·80	...	...	...	0·50	...	1·00	...	0·60	...	...	...	...
EAST BENGAL	Chittagong ...	Cox's Bazar ...	...	...	0·07	4·73	...	...	...	...	...	...	...	...	...	0·20	0·10	...	...	0·08	...	...
		Chittagong ...	...	0·37	...	2·62	0·03	0·01	...	...	...	...	...	...	...	...	0·49	0·10	...	...	0·07	0·19
		Kutubdia ...	...	...	...	0·26	...	...	...	...	...	...	...	...	...	...	...	...	...	0·11	...	1·23
		Satkanya ...	...	0·10	0·12	1·84	0·10	...	...	...	...	...	...	...	...	...	0·48	...	...	...	...	0·50
	Chittagong Hill Tracts.	Rangamati ...	...	...	0·36	1·84	...	...	...	...	...	...	...	...	...	...	1·75	...	...	...	1·16	0·26
		Ruma ...	...	0·70	...	0·90	1·20	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	1·60
	Backergunge...	Patuakhally ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·65	...	...	...	...	0·45
		Perozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·98	...	...	...	...	0·91
		Burrisal ...	...	0·04	...	...	...	...	...	...	...	...	...	...	...	...	0·93	...	...	...	...	[illegible]
		Bhola ...	...	0·11	...	...	...	...	...	...	...	...	...	...	...	...	0·91	...	...	...	...	[illegible]
		Gournaddi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bauphal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·35	...	...	...	...	...	[illegible]
	Noakholly ...	Noakholly ...	...	...	...	0·23	...	0·16	...	...	...	...	...	...	...	0·39	...	...	...	...	...	...
		Fenny ...	...	...	0·10	1·20	...	0·15	...	...	...	...	...	...	...	...	0·90	0·30	...	...	...	[illegible]

in Bengal in May 1889.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st May 1889.	Average rainfall from 1st January up to 31st May 1889.	Station.	District.	Meteorological division.
0·09	0·87	0·10	...	...	...	...	...	...	...	...	3	5·2	1·06	2·61	0·87	1·23	5·34	Pooree ...	Pooree ..	ORISSA.
...	0·07	0·44	0·09	...	...	0·53	...	...	...	.	4	7·4	1·12	3·22	0·53	1·41	5·57	Khurdah.		
...	...	0·20	1·00									4·2						Banpur.		
0·33	0·04	...	0·62	..	...	0·08	0·02	..	...	...	7	6·1	1·13	3·51	0·62	3·85	8·21	False Point.		
...	0·90	..	.									?		?			?	*Gop.*		
												?		?			?	*Pipli.*		
...	...	..	...	0·23	0·43	0·84	...	...	...	.	4	4·9	2·11	2·71	0·84	4·54	5·22	Jagatsingpore	Cuttack	
...	...	0·07	0·08	..		0·07	..	.	.		7	5·8	0·63	1·94	0·15	2·01	4·59	Banki.		
...	0·01	0·09	.	0·73	0·02	...	0·07	...	...	...	7	8·3	3·20	3·24	2·30	4·48	6·72	Cuttack.		
...	..		...	1·12	0·77	...	0·20	..	...	...	6	6·1	2·82	3·48	1·12	4·93	6·92	Kendrapara.		
...	..	..	...	0·58	0·70	..	0·34	2·13	0·10	..	7	7·4	4·82	4·38	2·13	6·65	8·89	Jajpore.		
...	...	...	...	0·20		0·30	1·40	..	...	..	4	?	2·40	?	1·40	4·40	?	*Dharmsala.*		
...	...	..	...	0·12	0·75	...	...	...	...	...	5	?	2·65	?	0·90	4·25	?	*Salipore.*		
...	1·70	...	.	...	0·47	...		0·46	...	...	5	7·3	3·43	4·81	1·70	6·33	8·37	Chandbali ..	Balasore.	
...	2·58	...	0·48		0·25		0·30	0·04	0·20		10	8·2	5·38	5·18	2·58	7·85	10·12	Bhuddruck.		
1·80	...	.	..	1·20	0·40	1·00	0·10		..	...	8	8·2	5·01	4·99	1·80	8·55	9·48	Sorah.		
1·00	..		...	0·24	0·84	0·40	...	0·07	...	...	10	9·7	4·45	4·95	1·00	6·68	11·51	Balasore.		
..	0·60		..									7·0						Jellasore.		
1·49	0·03		...	0·03	...		...	...	...	...	6	10·0	4·30	4·91	2·02	8·00	8·59	Baripodah.		
...	0·48		0·22	...	0·32	...	..	...	...	.	4	6·5	1·77	4·31	0·75	3·71	8·57	Contai ..	Midnapore.	
...	0·65		...	...	.	...	..	...	...	...	3	8·7	2·13	4·36	1·45	3·64	8·41	Saugor Island		
...	0·30	0·10	...		0·30	..	.	0·10	...	...	6	6·5	1·70	4·63	0·60	4·80	9·53	Tumlook.		
...	0·41		1·20		0·13	.	...	...	..	...	6	8·7	2·64	5·22	1·20	11·31	9·96	Midnapore.		
...	2·26	...	0·19	...	0·21	.		...	..	.	7	8·8	3·08	5·04	2·26	6·58	9·71	Ghatal.		
...	1·43	...	[illegible]	..	1·58	..	...	.	..	..	4	?	1·34	?	1·58	7·66	?	*Kukrahaty.*		
...	1·34		2·04	...	1·55	...	...	.	..	..	5	?	5·48	?	2·04	7·47	?	*Herra.*		
...	1·11	.	0·60	...	2·65	...	.	...	...	...	4	?	4·67	?	2·65	10·94	?	*Bhagwanpore*		
...	1·45	..	1·15									?		?			?	*Garbeta.*		
...	2·00	...	..	0·43	0·23	...		...	...	...	5	9·3	5·08	5·00	2·60	8·17	10·91	Diamond Harbour.	24-Pergunnahs.	
...	0·32	..	1·77	...	0·13	.	...	.	...	..	5	?	3·81	?	1·77	0·89	?	*Canning Town.*		
...	1·52		0·59		0·18		...	0·91	..		6	10·0	3·92	5·22	1·52	10·40	10·94	Alipore Jail.		
0·50	...					..			...	..	3	9·5	1·62	4·98	0·60	4·38	10·11	Barrackpore.		
...	0·36	..	0·11		0·15	...	.	1·00		.	6	9·7	2·42	5·72	1·00	6·96	10·93	Dum-Dum.		
0·87	..	.	.	0·11	0·03	...	...	.	...	...	6	9·8	2·12	5·66	0·87	5·83	11·04	Baraset.		
...	0·21	...	0·64		...	..	...	...	...	..	4	10·2	1·80	6·15	0·64	4·44	11·76	Buseerhat.		
0·46	...	0·42	...	0·07	..	...	0·43	...	...	...	6	9·6	2·10	4·95	0·76	7·13	10·08	Howrah .	Howrah ...	SOUTH-WEST BI .G L.
..	0·60	...	0·09	...	0·33	...	...	0·18	...	...	6	9·7	1·61	5·71	0·60	7·24	10·38	Mohesreka (*Ooloobariah*).		
...	0·80	.	...	...	0·05	...	.	.	...	...	5	10·6	1·99	4·81	0·80	5·11	9·75	Serampore ...	Hooghly.	
0·31	...	.	0·14	...		.	..	...	...	.	4	9·1	1·79	5·49	0·94	4·87	11·68	Hooghly.		
...	0·85	...	0·19	..	0·05	...	...	...	...	...	5	8·6	1·53	4·88	0·85	5·40	9·55	Jehanabad.		
...	0·55	...	0·15	...	..	...		..	...	...	4	7·3	2·72	4·07	1·90	5·17	9·79	Culna ...	Burdwan.	
..	1·47	...	0·18	...	0·38	..	0·17	...	...	...	5	9·8	4·36	5·02	2·16	6·60	9·68	Burdwan.		
...	1·90	..						...	...	...	1	7·9	1·90	5·18	1·90	3·87	9·74	Cutwa.		
...	3·60		0·23	..	0·44	0·05	0·53	...	..	...	7	7·8	5·02	3·10	3·60	7·45	6·55	Raneegunge.		
...	1·25	...	0·50	..	...	..	1·23				4	?	4·03	?	1·25	7·06	?	*Mankur.*		
...	0·88	..	0·63	..	0·53	0·55	..	.	.	..	7	8·1	3·80	3·43	0·83	6·75	7·83	Bankoora .	Bankoora.	
...	0·62	0·96	...			0·44	...	...	...	..	5	8·3	3·18	4·50	0·96	8·23	8·96	Bishenpore.		
0·92	.	..	...	0·27	0·06	0·85	..	...	...	...	5	7·2	2·67	3·25	0·92	5·04	5·81	Maluara.		
...	0·80	...	..		...	0·39		.	...	...	5	6·8	2·19	3·53	1·35	5·64	6·45	Khatra.		
...	0·60	...	1·30		1·40		...	...	...	...	6	?	1·78	?	1·40	7·41	?	Indas.		
...	0·97	..	0·66	.	0·56	...	...	..	...	..	3	?	2·19	?	0·97	6·73	?	Kotalpore.		
0·40	...	...	0·05	...	0·30	.	...	.	.	...	5	?	0·93	?	0·40	2·88	?	Anda.		
...	1·30	..	0·56	..	0·15	0·62	...	...	.	...	5	?	3·06	?	1·30	5·40	?	Gangajalghati.		
0·25	0·55	...	...	...	..		...	...	...	.	5	?	1·42	4·00	0·55	3·46	7·19	*Raipore.*		
...	1·19	...	0·54	...	0·05	0·03	.		...	.	6	?	4·95	?	2·55	8·64	?	*Sonamukhi.*		
...	3·12		0·06	.	...	.	0·72	.	...	...	3	8·5	3·90	3·32	3·12	6·69	6·32	Bh. Soory ...	Beerbhoom.	
4·65	...	.	0·17			0·18	..	.		...	3	8·4	5·30	3·42	4·65	8·06	6·47	Hetampore.		
...	1·70	.	0·40	..	...	...	0·02		..		4	7·8	2·92	3·44	1·70	8·06	7·12	Rampore Haut		
...	1·74	...		.	.	0·04	1·37	..	..	...	4	?	3·85	?	1·74	6·70	?	*Bolpur*		
...	2·10	..	1·50	...	...	...	...	...	.	...	3	?	3·86	?	2·10		?	*Murarai.*		
...	0·76	0·03	0·16	.	...	.	...	...	.	.	5	7·4	2·17	4·94	0·83	5·74	10·68	Ranaghat ...	Nuddea.	
...	0·34		0·05		...	.	...	.	.		5	10·4	1·51	6·26	1·00	4·04	11·33	Kishnaghur.		
...		...	...	...	..	...		.	.		3	9·9	1·95	7·50	1·25	5·39	13·56	Chooadanga.		
...	0·63	...	0·31	...	...	...		.	...	...	7	8·4	3·21	5·85	0·68	15·83	12·59	Meherpore.		
...	...	...	0·22	...	...	...	...	..	..	...	7	10·1	2·83	6·85	0·86	5·01	13·01	Kooshtea.		
0·13	.	0·31	...	0·35	...	...		...	.	...	5	9·8	1·46	5·69	0·41	5·54	12·37	Satkhira ..	Khoolna.	
...	0·15	...	...	..	...		.	...	...	..	3	9·5	0·79	6·30	0·36	5·89	13·39	Bagirhat.		
...	0·05	...	0·05	.	...	...		...	...	...	4	10·9	0·44	6·02	0·22	4·52	13·10	Khoolna.		
...	0·15		0·22	0·14	0·13	1·34	0·10	...	0·36	0·20	9	11·1	3·19	6·38	1·34	8·47	13·29	Narail ...	Jessore.	
...	0·03		0·40	0·93	..	0·06	...	0·08	0·02	..	8	12·7	2·14	7·23	0·93	6·46	15·05	Jessore.		
...	...	...	.	.		...		.	0·78		5	11·1	3·07	6·29	1·31	7·12	13·13	Jheniadah.		
...	...	..	0·17	0·07	0·94	0·38	...	.	...	0·55	10	12·4	5·79	7·57	0·94	8·30	15·23	Magoorah.		
...	0·07	..	...	0·20	...	..	...	...	...	...	4	7·0	1·23	6·42	0·55	8·07	11·21	Bongong.		
...	2·40	.	1·55	..	..	..	...	.	.	..	4	8·8	4·82	4·42	2·40	7·41	8·23	Kandi ...	Moorshedabad.	
...	1·58	...	1·05	..	.	0·12	.	..	...	..	7	8·8	7·74	4·95	4·27	10·31	9·33	Berhampore.		
...	1·16	...	0·56	...	...	0·07	.	...	...	..	5	7·8	5·39	4·84	2·96	8·35	8·21	Lalbagh.		
...	1·09		0·75	.	.	0·19	.	...	...	.	6	8·1	4·60	4·67	2·26	9·60	8·32	Azimgunge.		
...	1·43	...	0·60	..	...	.	..		...	..	5	7·6	3·29	4·74	1·43	8·79	7·87	Jungipore.		
...	2·95	...	0·20	...	...	.	.	...	..		4	8·5	4·75	5·42	2·95	8·84	8·87	Lalgola.		
...	1·08	.	0·60	.	...	0·75	0·04	.	..	.	7	?	4·80	?	1·80	8·48	?	Jangunge.		
...	0·68	.	1·07	.	...	.	..		...	...	4	?	2·73	?	1·07	6·50	?	*Akhrigunj.*		
...	1·08	...	.	...		...	..	...			5	?	3·08	?	1·08	4·98	?	*Patkabari.*		
0·30	...	...	0·40									12·2						Cox's Bazar ..	Chittagong ...	EAST BENGAL.
...	0·20	...	0·05	0·02	...	0·08	0·15	0·52	...	...	14	12·1	4·90	9·07	2·62	9·85	17·27	Chittagong.		
...	...	...	1·29									?		?			?	*Kutubdia.*		
...	...	...	0·08	....	...	...	..	...	0·13	...	8	?	3·35	?	1·84	4·90	?	*Satkanya.*		
...	...	...	0·42	...	..	...	...	0·44	...	.	7	13·9	6·03	9·71	1·75	12·37	18·26	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	...	.	...	5	12·7	4·90	8·55	1·60	6·64	15·52	Ruma.		
0·05	...	...	1·37	...	0·17	1·50	...	1·05	0·14	...	8	11·2	5·38	7·81	1·50	9·62	14·41	Patuakhally	Backergunge.	
...	...	...	..	0·26	...	...	0·18	...	...		4	10·6	2·33	6·52	0·98	6·69	12·68	Perozepore.		
...	...	...	...	1·56	0·02	0·13	...	...	0·19	...	7	13·9	2·95	7·41	1·56	7·54	14·95	Burrisal.		
...	1·83	...	...	...	...	0·89	...	...	.		5	[illegible]	3·83	6·58	1·83	8·00	13·83	Bhola.		
..	...	...	...	...	...	1·72	..	0·50	0·75	..	3	?	2·97	?	1·72	10·34	?	*Gournaddi.*		
...	0·07	0·22	...	0·35	...	...	...	...	1·00	...	6	?	3·04	?	1·35	5·89	?	*Bauphal.*		
0·45	...	1·89	0·13	0·13	...	0·08	...	0·14	1·87	...	10	12·1	6·07	9·33	1·89	11·80	17·80	Noakholly ...	Noakholly.	
...	0·85	...	...	0·15	...	...	...	0·10	0·60	...	10	14·2	4·95	10·07	1·20	14·92	20·76	Fenny.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL—*concld.*	Noakholly—*concld.*	*Harishpore* ...			...	0·40	...	...	...	..	...	...	...	...	...	.	0·74	...	.	...	...	...
		Ramganj ...	0·05	..	.	0·44	...	0·41	..	0·07	...	...	...	...	...	..	0·19	...	...	..	...	...
	Furreedpore...	Madaripore ...	0·28	...	.	...	...	0·16	...	...	..	..	...	...	...	...	0·21	...	...		..	...
		Furreedpore ..	...	...	0·60	...	...	0·40	...	...	0·05	...	...	.	...	0·05	0·30	..	.	0·15		...
		Goalundo ..	...	.	2·10	:	...	1·55	..	...	0·28	...	...	...	...	...	0·13	0·43	...	..	0·74	...
	Dacca ..	Munshigunge	...	...	...	1·29	...	..	0·83	...	0·20	...	...	..	.	0·34	0·27	0·63		.	...	...
		Dacca ..	...	...	...	1·43	...	0·07	0·32	...	0·26	...	...	...		0·95	0·13	0·60	...	.	...	0·51
		Naraingunge	...	...	.	1·66	...	0·04	1·19	...	0·11	..	...	..	...	0·94	0·31	0·61	...	...	...	0·16
		Manickgunge	.	.	0·48	.	...	0·85	0·04	...	0·18	...	.	..	...	.	0·06	0·82		..	...	0·89
		Joydebpore ...	...	..	1·21	0·01	...	2·80	1·35	.	0·33	...	...	...	...	1·56	1·13	0·43	..	...	0·06	2·27
	Hill Tipperah	Agartola ...	..	.	...	1·63	...	0·60	...	...	...	...	.	...	...	1·95	...	...	..		...	...
	Tipperah ..	Comilla ...	...	...	0·05	1·75	...	...	...	...	0·05	...	...	...	...	1·54	0·10		...	...	0·42	0·20
		Chandpore ...			..	0·80	..	..	0·30	...		.	.	...	...	..	0·20	.	.	...	.	0·15
		Brahmunberia	..	0·97	.	1·72	...	0·18		.	0·05	..		...	...	...	1·36	0·06	0·11	...	0·08	0·02
		Ramchandrapore.	..	...	..	0·77	...	0·46	0·06	..	0·18	...	...	...	.	0·09	1·50	0·23	.	...	...	0·02
		Nasirnagar ..	0·60	...	0·90	.	...	2·30	...		...	...	...	...	...		2·30		...	...	...	...
		Daudkandi ...	...	...		1·85	...	0·30	0·50	...	...	..	...	.	...	0·50	0·30	0·50	..	...	...	0·80
		Kasba ...	...	...	...	1·37	...	0·90	...		...	..	...	...	..	...	1·70		.	...	...	0·05
		Laksham ...	...	...	...	...	...	...	...	...	...	..	...	...	.		0·65		...	...	...	0·90
	Mymensingh	Kishoregunge	1·37	...	0·65	...	..	0·15	...	..	...	...	..	..	0·22	1·17	0·23	0·85	...	...	0·38	0·06
		Atia (*Tangail*)	..	..	2·84	...	0·85	0·31	..	0·15		.	...	...	1·09	1·28	1·87	0·26	..	...	1·52	..
		Mymensingh	0·51		0·14	..	...	...	...			...	...	...	0·50	1·23	0·61		1·00	..	.	0·54
		Jamalpore ...	0·31	..		...	...	...	..	..		.	...	.	0·28	0·52	0·96					..
		Netrokona ...	0·12		0·20	...	0·02	...	...	0·92	...	..	...	0·05	1·20	0·32	0·22		0·05	...	0·26	0·33
		Subornakhally	0·45	..	1·42	...	0·02	0·05	...			0·15	...	0·05	...	0·11	1·42	1·20		..	..	
		Durgapore ...	0·66	.	0·20	.		..	..	1·10	..	..	...	...		0·66		0·45	...	...	3·30	0·60
		Sherpore Town	0·25	...	...	..	...	...		...	..	.	...	...	1·03	0·34	0·43	..	.	...	.	..
		Dewanganj ...	.	...	.	...	...			...			..	...	0·30	0·50				...	...	0·30
NORTH BENGAL	Pubna ...	Pubna ...	0·03	...	0·08	...	...	2·26	0·23		0·77		.		..	.	0·05	0·06		..	.	
		Serajgunge ..	.	...	0·18	.	..	0·33	...	.	0·32	...	.	0·05	...	0·06	4·23	1·50	..	...	...	0·13
	Bogra ..	Sherpore ...	0·35	...	..	...	0·11		.	..	0·06			0·15	...	0·07	0·03	0·09	.	.	...	.
		Nowkhilla ..	0·50	...	0·21	...	..	.	..	0·24	...	..	...	0·07	...	0·35	0·26	1·05	.	..	.	...
		Bogra ...	..	...		...	...	...	...		...			..	...	0·16	0·55		.		...	..
		Panchbibi ...	...	...	...	...	...	...	...	..	...	...		...					..	...	...	0·08
	Rajshahye ...	Beauleah ...	..	..	..		..	...	1·00	..	...	...	...	0·01	...	...	0·31	...	...	.	0·02	...
		Nattore ...	...	...	...	...	.	0·15	...			..	...	0·09		.				...		
		Naogaon ...	...	.	...	...	..	...	..	.	..		...	...			.	0·01			.	.
		Lalpore ...	...	...	...	..	..	...	...	0·45		...		...	..	.			..	...	.	.
		Manda ...	...	...	...	...	.	...	..	...	...	...	...	...	...	...	...		...	...	...	..
	Maldah ...	Maldah ...	...	...	...	...	...	...	.			...	..		...	.	...	..		...	...	.
		Chanchal ...	...	...	..	...	...	.	...	...	...	...	.	...	...	.	...	.	...	..	...	...
		Gajol ...	...	...	.	...	...	...	...	...			..	.	...	..	...		...		...	...
		Sibganj ...	...	...	...	..	...	...	...	..		..	...	.	...	...	...	0·50	...	...	...	...
	Dinagepore ...	Mohadebpore	...	...	...	...	.	..	..	...		.	...	..	..	...	...		...	.	...	.
		Churamon ...	...	..	...	...	...	...	...	...	.	.	...	...	...	.	..	...	.	...	...	
		Raigunge ...	...	...	...	...	...	...	...	...		...	.	...	...	...	...	..	...	..	.	..
		Dinagepore ...	...	..	.	..	...	...	...	...			.	...	...	...		...	...		...	...
		Baloorghat .	..	...	..	.	...		...	...	..	...		...	...	..	...		...	..	..	.
		Thakurgaon...	...	...		...	...	.	...	...		...		...	.	.	.	...	...	...	...	...
	Rungpore ..	Bhawanigunge (*Gyabanda*).	...	..	...	...	...	...	...	...	0·14	...	..	...	...	...	...	0·62	..	0·35	...	0·35
		Rungpore ...	...	...	...	...	...	.	..		0·03	...	..	...	...		..	0·90	...	...	0·32	0·18
		Kurigram ...	...	...	..	...	..		...	1·05	0·08		.	.			0·51	1·40	...	..	..	0·60
		Bagdogra (*Nilphamari*).	...	...	...	..	...	...	..			...		...	..	.	...	0·06	.			
		Ulipore ...	...	...	...	...	...	...	...	0·28	0·52		...	0·03	..	.	0·26	0·60	...		0·84	0·19
	Julpigoree ...	Julpigoree ...	..	.	.	...	..	.		0·74	0·33	...		...	0·07	0·01	...	0·36		..	1·86	0·71
		Alipore Doar	...	...			..	0·31	0·40	..	0·60	..		..	0·04	.	...		...		1·23	1·33
		Falacotta ...	..	...	0·43	.	.	...	1·52	0·66	0·86	0·16	0·24	.	...	.	...	0·31	...	1·05	2·60	.
		Debiganj ...	...	.	...	..	..	...	...	1·15	.		.	.	..	.	...		.	0·43	..	
		Bhogotpore (*Nagrakatta*).	...	...	...	0·18	...	..	...	0·34	1·30	0·02	.	0·59	...	0·44	0·08	...	0·37	0·79	0·91	...
	Cooch Behar..	Dinhatta ...	...	...	.	...		0·67		0·71	0·31	.	0·02	0·44	...	...	...	0·46	...	...	0·08	0·04
		Cooch Behar...	...	...	.	0·45	...	0·30	0·03	0·43	1·83	0·05	...	0·85	...	..	...	0·23			2·90	0·55
		Mickligunge...	..	..	...	...				0·11	0·25	...	..	...		..	..		0·36		..	0·11
		Matabhanga...	.			.		1·52	0·27	0·38	0·62	.	0·18	..	0·03	0·08	0·27		0·17	2·81	0·42	..
	Darjeeling Hill	Buxa ...	0·65	0·27	0·09	0·32	1·00	0·18	0·15		1·01	1·02	0·14	0·05	0·34	0·45	0·18	0·13	0·05	...	1·03	0·63
		Siliguri ...	..	.	.	...	...			0·04	.		...	0·14	0·18		0·13	0·15	...	.	0·27	0·13
		Darjeeling ...	0·16	0·18	0·06	0·34	...	0·02	0·06	0·02	..	0·26	0·06	0·04	0·03	0·37	..	0·37	...	1·10		0·52
		Kalimpong ..	..	..	0·10	...	...	0·56	...	0·13	.	0·66	.		0·83	.	.	0·18	.	0·71		0·43
		Kurseong ...	...	.	.	0·20	.	.	...	0·24	..	...	0·20	0·80	...	.	0·70	0·50	..	0·20	0·10	..
NORTH BEHAR	Purneah ..	Kissengunge		...	...			..	.				...	...		...	...	...	...	...	.	0·10
		Arrareah ...	..	...	...	.		.			..	..	...	...		...	...		...	..		
		Purneah .	..	...	...	...	..	...	...	...	..		...	...	...	.	.		...	..		.
		Gondwara ..	..	...	...	..	...	...		...	.		.		...		..	...	..		..	...
		Bularampore	...	...	.	.	...	...		..	...	.		.	...	..	...	..	.	.		.
		Matiari ..	.	...	...		...		.	..				.	..		.	...				
		Kaliaganj ..			..	...	..	.		...			.		.		.	.		...	..	.
	North Bhagulpore.	Maddapore ...	...	..		...	...	.	.		..				..	...	...	..		...	...	..
		Soopool ...	...		...	..	...	...	.	...				.	.	...	..	..	...	..	...	..
		Protabganj ...	.	...	...	...	..		...	...		.	...		...	...	..		...	..	.	..
	Durbhunga ...	Tajpore ...	..	...	...	..	...	...	..		...			..	.	...		..	.			
		Durbhunga ...	...	...	...			...	...	.	..					...		..			...	...
		Madhubani ...	...	...	...	..	.	...		...	..	...	.	.	...	...	.	..			.	...
		Bahera ...	...	.		..	.		.	.		..	..		...			..	...		..	...
		Roshera ...	...		...	.	...	...		.	...		...	..	..	...		.	...	..	.	..
	Mozufferpore	Sitamarhi ..	...		..		...		...	...				.		...		..			.	
		Mozufferpore			.		...		...			..	.	...				..	..		..	
		Hajipore ...		...		.		...		.	.		..	...			..	.	.	..	.	...
		Paru ...	...		...	...	...	...		.			..	..	.	...				.		.
		Mahua ...	...	.		..	...	.	...	..	...	...		..		.	...		...	.	..	.
		Siuhar ...	.	...	...	..			...	...		...		...	..	.			...		..	..
		Pupri ...	...	..	.	.	...	...	...	...	...		.	...	..	...	...	...	.		...	..
	Chumparun ...	Motihari ...	...	...	.		.		...			..	..	..	...	...	...	...	..	...	..	..
		Bettiah ...	.	.	.	...		.		..	.	.	...	...	...	...			.	...		
		Bagaha ...	...		...			...	...	...				...	.	...	...	.		.	..	...
		Burhurwa ...	.		..	.	.	.		...	...	..		...	..	...	...	..	.	...		...
	Sarun ...	Gopalgunge .				.					...	.	...		...	...	...	...	..	...	...	...
		Sewan ..		...	.	.					.					...		..	...	..		...
		Chupra ...	.	...		..	.		.				...	...		..		.	.		..	

in Bengal in May 1889—*continued.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st May 1889.	Average rainfall from 1st January up to 31st May 1889.	Station.	District.	Meteorological division.
...	...	...	...			1·50	0·45	...	...	...	4	?	3·09	?	1·50	4·62	?	*Harishpore* ...	Noakholly—*concld.*	East Bengal—*concld.*
0·21	..	.	.	0·82	.	..	0·06			.	8	?	2·25	?	0·82	5 78	?	*Ramganj.*		
...	...	.	.	0·04	0·35	...	...	0·40	1·20	...	7	11·6	3·24	8·53	1·20	0·25	16·31	Madaripore ...	Furreedpore.	
...	...	1·20	0·07	..	.	...	...	0·10		...	9	12·7	2·92	8·19	1·20	7 91	16·51	Furreedpore.		
...	...	..	0·41	...		...	...	..	1·74	0·14	9	11·1	7·52	7·43	2·10	12 48	15·15	Goalundo.		
0·60	0·08	...	0 92	..	1·00	.	...	0·78	0·97	..	13	11·7	8·42	9 01	1·29	12·48	19·39	Munshigunge.	Dacca.	
0·56	..	...	1 70			...	...	0·74	0·04	..	12	12 8	6·98	8·98	1·70	10·54	18 57	Dacca.		
0·41	..	...	0 61	..	2·18	...	.	1·09	1·02	..	13	13 6	11·06	8·20	2·18	15·25	17 51	Narainganj.		
0·04	...	...	0 85	0·20		...	...	0·52	0·87	...	13	12 3	7·24	8·57	2·27	10 81	15·93	Manickgunge		
0 38	.	...	0·21	...	0 17	0·88	...	0 61	.	...	13	?	10·77	?	2·80	15 38	?	*Joydebpore.*		
1·08	...	.	1·35	.	..	...	...	1·18	...	...	6	13·7	7 78	10·81	1·95	15·99	22·07	Agartola ...	Hill Tipperah.	
0·15	..	1·70	0·24		..	...	...	0 95	0·05	...	12	14·0	7·23	10·28	1·75	14·82	21·27	Comilla ...	Tipperah.	
.	0·30	..		0 40		0·40	...	0 60	0·50		9	11·9	3·65	8·62	0·80	7·17	17·64	Chandpore.		
0·41	0·22		0·01	..	0 13	...	..	0·07	0·61	...	15	13 6	6·00	10·75	1·72	14·07	22·36	Brahmunberia.		
1·30		...	0 22	.	...	...	..	...	. .	.	10	?	4·81	?	1·50	8·85	?	*Ramchandrapore.*		
1·75	...	...	.	.	...	...	...		...	.	5	?	7·85	?	2·30	13·24	?	*Nasirnagar.*		
0·60	.	. .	0 50	0·25	.	...	..	0·40	..	...	11	?	6 50	?	1·85	8·25	?	*Daudkandi.*		
0·51	...	...	0·75	0 73		...	.	0·25	...	...	8	?	6 29	?	1·70	13·04	?	*Kasba.*		
0·15	. .	...	.	.	...	...	.	..	.	...	3	?	1·70	?	0·90	8·09	?	*Laksham.*		
1·04		...	.	0·13		..	.	0·47	0·21		13	13 0	6 93	10·44	1·37	15·09	19·82	Kishoregunge.	Mymensingh.	
	...	...		.	..	.		0·91	1 48	0·42	12	10 2	12 96	7·21	2·84	15·70	13 54	Atia (*Tangail*).		
0·95	..	..	0 09	0·09	..	.	1·60	.	0 08		12	15 4	7 34	12·55	1·60	12·06	21·03	Mymensingh.		
1·03	...	. .		0 59	...	.	0·73	0·24	1·17		9	11·0	4·83	8·89	1·04	8·08	14·94	Jamalpore.		
2·30	...	...	0·22	0 45	..	0·32	2·05	0·02	0·48		18	15 0	9 53	11 32	2·30	18 49	18 73	Netrokona.		
	...	..	0 09	.	...	...				0·33	11	?	4 29	?	1·42	8 64	?	*Subornakhally.*		
0·60	...	..	1·50	1·00	...	.	0·75	0·50	0·09	...	13	?	11 41	?	3 30	19·54	?	*Durgapore*		
1·24	.		..	.		1·27	..	0 08	0·10	...	8	?	4 74	?	1·27	10·56	?	*Sherepore Town.*		
...	. .	.	.	1·03		...	...	..	...	..	4	?	2 13		1 03		?	*Dewanganj.*		
	.	.	0·16	...	...	...		. .	.		8	11 2	3·64	6·69	2·26	7·11	13 36	Pubna ...	Pubna	North Bengal.
0·02	0·35	...	0·07	..	...		0·16	...	0·23	0 31	14	10 9	8·24	7·84	4·23	11·50	13·28	Serajgunge.		
1·24	0·11	...	...	0·12	. .	0·35	..	.	...	.	11	11 5	2·68	8·05	1·24	5·75	12 22	Sherpore ...	Bogra.	
0·06	0·06		.		. .	0 04	.	0·04	0·05	0 94	13	11 7	4 77	7 56	1·05	8·75	11 93	Nowkhilla.		
.	. .	0·10	...	0·12	.	0·16	...	.		0 06	6	12·1	1·15	8·53	0·55	3·61	13·07	Bogra.		
...	...		0 29	0 29		...	...	.	...	...	3	8·2	0·66	7·15	0·29	4·44	10 53	Panchbibi.		
0·71	.	0 17	. .	.		...	...	.	.	...	6	10·1	2 28	5·83	1·06	5·20	9 48	Beauleah ...	Rajshahye	
...	0·30	.	...	. .	0·02	...	...		.	...	4	8·1	0 56	0·47	0·30	4·89	11 06	Nattore.		
. .	0 74	.		. .	. .	.	...	.	...		2	8·8	0·75	?	0·74	5·18	?	*Naogaon.*		
...		0·45		..	...				...	.	2	?	0·90	?	0·45	3 80	?	*Lalpore.*		
...	0·20		1·30	.		.	...	...	...	..	2	?	1·50	?	1·30	4 70	?	*Manda.*		
...	0·95	..	0·33	...		...	.	..	...	. .	9	7·7	1·28	3 80	0·95	5·47	7·39	Maldah ...	Maldah	
...	0 13	...	.			...	.	...	.	...	1	7·3	0·13	4·45	0·13	2·99	7·10	Chanchal.		
...	0·25	.	0·08	0·10			.	...	...	...	3	?	0·43	?	0·25	3 97	?	*Gajol.*		
...	1·80		0·10	..		0·06	0 09	...	.		5	?	2 55	?	1·80	5·99	?	*Sibganj.*		
0 30	..	0·35	.	...			...	...	.	...	2	8·4	0 65	6·24	0·35	4 45	9·01	Mohadebpore...	Dinagepore	
.	0·21	...	..	...	...			..	...	...	1	7·1	0·21	4 70	0·21	5·03	6 86	Churamon.		
...	0·10	...	...			...		..	...	...	1	7 6	0 10	5 90	0·10	4·49	8·83	Raigunge.		
0·14	.	...		0·61	..		0·30	..	...		3	10·3	1·05	7 71	0·61	4·04	11·59	Dinagepore.		
0·29	0·19	.	1·07	...		0·02	0·05	..	...	...	5	8·2	1·62	5 89	1·07	5·08	8·38	Baloorghat		
0·18	0·64	.			0·11	...		...	...		3	?	0·93	?	0·64	5·15	?	*Thakurgaon.*		
1·42	...	.	..	...	..	0·13	1·70	0·19	.	0·15	9	10·5	5·05	8·90	1·70	10·34	13 95	Bhawanigunge (*Gyabanda*).	Rungpore	
0·25	0·70	0·01	...		...	0·03	...	0·19	...	...	9	13·0	2·61	10·41	0·90	9 62	15·51	Rungpore.		
0 64	1·30	0·10	...	...	...	..	..	..	0·15	0·07	10	15 0	5 90	13 03	1·40	12·32	20·49	Kurigram.		
0 22	1 65	...			...	.		...	...	...	3	11·4	1·93	11·16	1·65	9·10	16 90	Bagdogra.		
0·52	1·02	...	....	...	...	...	...	.	0·36	...	9	?	4·02	?	1·02	9·65	?	(*Nilphamari*) *Ulipore.*		
.	1·26		1·18	0·04		...	.	...		...	10	14 2	6·56	11·25	1·86	11·03	17·83	Julpigoree ...	Julpigoree	
. .		1·64		.	. .	0·22		.	...		8	?	6·37	?	1·64	18 82	?	*Alipore Doar.*		
...	0·14	.	2·00	...	.	0·68	0·28	...	...	...	13	?	10·83	?	2·00	18·36	?	*Falacotta.*		
...	2 02	...		.	...	0 03	.	..		...	4	?	3 63	?	2·02	8 97	?	*Debiganj.*		
1·72	. .	...	1·50	. .	.	1·44	0·18	0 22	0 81	...	16	?	10·89	?	1·72	19 13	?	*Bhogotpore (Nagrakatta.)*		
0·34	1·76	.	3·44	...	...	...		...		0·14	12	16·9	9·01	13·90	3·44	15·27	21·11	Dinhatta	Cooch Behar.	
1·80	0·30	. .	0·13	...	...	...	..	...	0·95	.	14	16·9	10·60	14·35	2·90	18 17	22 42	Cooch Behar.		
.	1·64	...		1·23	...	.	..	.	...	.	6	14·0	3 70	12 80	1·64	10·04	19 00	Mekligunge.		
2·57	.	...	0 98	0·32	..	.	..	0·12		0·19	16	16·6	10·98	12·80	2·81	16·92	20·16	Matabhanga.		
...	2·87		0·02		0·06	0·37	0·56	3 30	1·36	0·87	26	18·4	17·70	20·77	3·30	31·79	34·86	Buxa	Darjeeling.	
. .	1·55		1 40	0·10		0·57				.	11	14 8	4·66	8 80	1 55	12·04	14 87	Siliguri.		
0·01	0·72	0·08	[illegible]	0·01	0·22	0·27	0·03	0 32	0 01	..	25	18·1	5 29	7·40	1·10	14·06	15 57	Darjeeling.		
	0·58	0·05	0·16	...		0·13	0·04	...		0·09	14	15 5	4·65	5·91	0·83	13 32	·2·07	Kalimpong.		
0·91	...	0·28		...	0·18	0 84	0·18	1·90		...	14	?	8·49	?	1·90	?	?	Kurseong ...	Purneah	North Behar.
0·30	2 78	...		...	. .	...	...	...		...	3	8 6	3·18	6·24	2·78	5·83	9·78	Kissengunge.		
0·99		..	0·25	...	...	..	...	..	.	...	2	6 5	1 24	5 52	0·99	3 79	8 06	Arrareah.		
1·99	..	...	.	...	...	0·89	...	...	.	...	2	8 0	2·88	4·41	1·90	5·84	7 23	Purneah.		
..	1·50	...	...	. .	...	...	.	.	..	...	1	?	1·50	?	1·50	4·48	?	*Gondwara.*		
0 40	..	...	...	...	...	...	...	...	...	.	1	?	0·40	?	0·40	4·05	?	*Balarampore*		
0 55	..	...	...	...	0·23		...	.	...	...	2	?	0·78	?	0·55	3·59	?	*Matiari*		
												?		?			?	*Kaliaganj*		
1 65	.	?.			...	...	...	...	...	...	1	5·5	1·65	4·18	1·65	7·10	6·79	Maddapore .	North Bhagulpore.	
	1·04	..		..		...	.	...		.	1	5·1	1·04	3 82	1 04	5·42	0·08	Soopool.		
0·20		...			0·70	...	.	...	...	...	2	?	0·90	?	0·70	4·26	?	*Protabganj*		
. .	0·93	..	0·54	...	...	...	.	. .	...	...	2	3·5	1·47	2·23	0·93	7 47	4·03	Tajpore .	Durbhunga.	
...	0·14	0·07	...	.	...	. .	...	.	.	...	2	5·0	0·21	2·50	0·14	4·21	4·34	Durbhunga.		
	.	...	..	2·85	...	0·04	...		.	..	2	4·9	2·89	3 02	2·85	6 49	5 66	Madhubani		
...	0·30	...		0 62	..	...	.	. .		. .	2	?	0 92	?	0·62	5 43	?	*Bahera.*		
...	0·90	.	..	...		...	...	...		...	1	?	0·90	?	0·90	5·13	?	*Roshera.*		
...	0·02	. .	...	0·07	0·23		...			...	3	5 5	0·32	2·52	0·23	5·12	5·29	Sitamarhi . .	Mozufferpore	
..	...	0·30	.	.		0·15	...	..		...	2	3 8	0·45	2·36	0·30	5·00	4·84	Mozufferpore.		
	.	0·82	0·20		0·17	0·02	...	...	..	...	4	3·5	1·21	1·99	0·82	5·14	3 79	Hajipore.		
...	..	..	..	..	0·60	...	..	...		.	1	?	0·60	?	0·60	3·97	?	*Paru.*		
...	0·12	0·45	..							. .	2	?	0·57	?	0·45	4 77	?	*Mahua.*		
...	...	...	..	0 20	...	..	.	...		.	1	?	0·20	?	0·20	15 32	?	*Seuhar.*		
	.	...	..	...	...	...	...	...			Nil	?	Nil.	?	Nil	2 40	?	*Pupri.*		
	0 27	...	.	..	0·25	.		..	...	...	2	5·3	0·52	2·38	0 27	4·41	4 34	Motihari ...	Chumparun	
0·73	.	..	0 02	..	0·52	...	.	...	.	...	3	4·2	1·27	2·58	0·73	5·23	4·80	Bettiah.		
...	1 70	...		...	0·65	...		...		...	2	?	2·35	?	1·70	6·57	?	*Bagaha.*		
	1·32	...	..		0·78	..	0·02		...	...	3	?	2·10	?	1·32	6 61	?	*Burhurwa.*		
0·77		.	...	0·67	..	0·57		.			3	4·0	2 01	2·66	0·77	7·35	4 30	Gopalgunge.	Sarun.	
...	0·35	. .	.			..	0·76	...		...	2	3·4	1·11	1 76	0·76	4·97	3·59	Sewan.		
. .		0 17	...	...	...	0·10	..		...		2	2·9	0·27	1 41	0·17	3 83	3·37	Chuprah.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhuboosh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ...	Begooseral ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gogri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour ..	...	...	...	...	...	0·17	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Deoghur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Somtagurah .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karagdeha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02
		Palamow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...
		Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hoseinabad ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singbhoom ...	Chyebassa ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·24	0·52	...	...
		Chakradharpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	0·42	...	...	0·07	0·83
		Baharagura...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ..	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	0·02
		Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20
		Chas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Bengal for the month of May 1889—*concluded.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st May 1889.	Average rainfall from 1st January up to 31st May 1889.	Station.	District.	Meteorological division.
		0·19									1	2·9	0·19	0·95	0·19	2·78	2·54	Buxar	Shahabad	SOUTH BEHAR
	0·03	0·15		0·02			0·05				4	2·8	0·25	3·20	0·15	2·90	4·97	Dehree.		
		0·20									1	2·1	0·20	1·08	0·20	2·25	2·96	Bhuboosh.		
	0·18	0·03									2	3·0	0·21	1·07	0·18	2·59	2·57	Sasseram.		
		0·30				0·60					2	3·5	0·90	1·51	0·60	3·80	3·91	Arrah.		
											Nil	?	Nil	?	Nil	2·31	?	*Mohaniah.*		
	0·05	0·63		0·20	0·05						4	2·9	0·93	1·59	0·63	2·89	3·18	Arungabad	Gya	
											Nil	3·9	Nil	1·21	Nil	4·05	3·25	Gya.		
0·05						0·09					2	3·2	0·14	1·82	0·09	3·47	3·81	Nowadah.		
	0·22			0·05							2	3·0	0·27	1·57	0·22	4·10	3·32	Jehanabad.		
		0·30									1	?	0·30	?	0·30	3·39	?	*Arwal.*		
		0·50									1	?	0·50	?	0·50	1·35	?	*Daudnagar.*		
		0·25									1	?	0·25	?	0·25	2·76	?	*Sheerghati.*		
0·10											1	?	0·10	?	0·10	0·75	?	*Rajauli.*		
	1·70										1	?	1·70	?	1·70	3·55	?	*Pakri Barawan.*		
		1·72	0·22		0·37	0·58					4	4·2	2·80	1·77	1·72	6·78	3·60	Patna	Patna.	
		0·62		0·12							2	2·6	0·74	1·61	0·62	4·28	3·03	Dinapore.		
0·12		1·46									2	3·9	1·58	2·13	0·46	6·15	4·04	Behar.		
	0·46	2·00	0·50								3	3·3	2·96	2·37	2·00	9·00	3·98	Barrh.		
		0·60									1	?	0·60	?	0·60	2·65	?	*Bickram.*		
		2·25			0·50	0·08					3	?	2·83	?	2·25	7·18	?	*Hulsa.*		
1·68					0·83						2	3·7	2·51	2·35	1·68	8·17	4·26	Begooserai	Monghyr.	
0·70		0·04									2	4·3	0·74	2·08	0·70	4·06	4·09	Monghyr.		
	1·82					0·19					2	4·1	2·01	2·11	1·82	5·70	4·43	Jamui.		
	1·35										1	?	1·35	?	1·35	7·52	?	*Gogri.*		
0·60											1	?	0·60	?	0·60	3·15	?	*Sheikpura.*		
	1·29		0·10			0·22					3	5·1	1·61	2·64	1·29	5·34	4·97	Bhagulpore	South Bhagulpore.	
	0·15		0·90			0·02	0·20				4	4·1	1·27	2·51	0·90	5·40	4·61	Banka.		
	3·54		0·10		0·27						3	?	3·91	?	3·54	7·37	?	*Kolgong.*		
	0·46		0·06			1·13					3	6·1	1·65	4·76	1·13	4·81	6·85	Rajmehal	Sonthal Pergunnahs	
	3·10		1·80								2	5·2	4·90	3·63	3·10	9·43	5·59	Godda.		
0·09	0·75		1·41								3	6·5	2·25	4·68	1·41	6·38	6·93	Pakour.		
	1·17		1·86			0·02	1·11				4	7·4	4·16	3·65	1·86	8·10	6·70	Nya Doomka.		
			0·11			0·46					2	5·8	0·57	2·80	0·46	2·68	5·41	Deoghur.		
	0·38		0·18								2	6·3	0·56	3·20	0·38	2·98	5·52	Jamtara		
	1·05										1	?	1·05	?	1·05	4·92	?	*Mohagama.*		
0·07			0·97				0·19				3	?	1·23	?	0·97	2·75	?	*Nanihat.*		
	0·28		1·33	0·05							3	6·2	1·76	2·23	1·33	5·20	4·63	Pachamba (*Giridi*).	Hazaribagh	CHOTA NAGPUR.
0·01	0·17	0·02	0·25	0·14	0·12	0·10	0·02				8	7·5	0·83	1·69	0·25	3·50	4·05	Hazaribagh.		
0·17	0·07				0·33	0·58					4	4·8	1·15	2·58	0·58	4·21	5·09	Somtagurah.		
												4·1						Mahudi Hills.		
	0·40	0·40										3·6						Jhoomrah Hills		
				0·43							1	?	0·43	?	0·43	2·27	?	*Barhi.*		
0·05				0·50	0·90						3	?	1·45	?	0·90	6·00	?	*Chatra.*		
	0·60		0·50								2	?	1·10	?	0·60	3·87	?	*Karagdeha.*		
											Nil	?	Nil	?	Nil		?	*Ramghar.*		
0·37	0·12					0·21					3	6·4	0·70	2·53	0·37	4·45	4·97	Lohardugga	Lohardugga.	
0·11	0·13		0·03	0·03	0·39	0·01					7	7·2	0·72	2·31	0·39	2·47	5·98	Ranchi.		
	0·01	0·25			1·43						3	3·6	1·69	1·36	1·43	4·09	3·56	Palamow.		
		0·80			0·50						3	?	1·60	?	0·80	2·80	?	*Silli.*		
												?		?			?	*Balumat.*		
		0·31									1	?	0·31	?	0·31	3·22	?	*Hosemabad.*		
					0·65						1	?	0·65	?	0·65	2·25	?	*Garuah.*		
0·48	0·29										3	8·8	1·96	3·74	1·24	4·01	7·14	Chyebassa	Singbhoom.	
	0·27	0·30	1·02	0·42							5	?	2·53	?	1·02	4·10	?	*Chakradharpore.*		
	0·85										2	?	0·95	?	0·85	2·69	?	*Ghatsila.*		
0·65											4	?	1·97	?	0·83	5·74	?	*Baharagura.*		
0·02	0·50			1·09	0·14						6	8·3	1·98	2·73	1·09	4·92	5·79	Purulia	Manbhoom	
	0·08					1·27	0·08				3	4·8	1·43	1·97	1·27	3·36	4·40	Gobindpore.		
	0·63		0·29			0·19	0·44				4	?	1·55	?	0·63	4·62	?	*Raghunathpore.*		
	1·80		0·53			0·06					3	?	2·39	?	1·80	5·40	?	*Barrabhoom.*		
		0·46			0·23						3	?	0·69	?	0·46		?	*Jhalda.*		
0·29											1	?	0·29	?	0·29		?	*Chas.*		

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE MONTH OF MAY 1889.

The normal meteorological conditions in Bengal during May are to a considerable extent similar to those of April. There is the steady and increasing difference of temperature between the land and the sea area, and in this month this difference attains almost its maximum. The area of maximum temperature during May includes the western districts of South Behar, the North-West Provinces, Rajputana, and Central India. With the increasing temperature of the land surface, the southerly winds blowing from the Bay of Bengal strengthen considerably, and owing to the physical obstacles of the hill systems to the east and north of Bengal, they appear as south-easterly winds in East Bengal, and as easterly winds in North Bengal. At the same time, however, the usual hot, dry westerly winds are blowing over considerable portions of Behar and Chutia Nagpur, and thus during May, as explained in previous monthly reports, conditions are favourable to the production of the local storms called nor'-westers. These, it is probable, are produced by the action of the opposing winds in elevating the moist sea breezes, and by this ascensional motion their water vapour is condensed, and sufficient energy is at the same time liberated to produce the well-known effects of these storms.

The southerly breezes which blow during this month at the head of the Bay are of considerable strength, and in fact at Saugor Island and False Point the wind velocities measured in May are generally greater than those during the actual rainy season, but there is reason to believe that during May the current is of small depth compared to what it is during the actual monsoon period. These winds, however, carry considerable amounts of moisture into East and North Bengal, and in the neighbourhood of the hills ascensional movement takes place, followed frequently by local storms and by heavy rainfall. This action will account for the large rainfall which occurs during this month in the northern and eastern districts of the province.

During May the distribution of the normal rainfall is simple, and the lines of equal rainfall run nearly north and south through the province, or rather almost parallel to a line joining the Chittagong Hill Tracts, the Tipperah Hills, the Garo Hills, and the Darjeeling Hills, the largest amounts being received in the eastern and northern districts, and the smallest amounts in the western districts. Thus the average rainfall of the month is less than 2 inches in the southern parts of the Sarun and Mozufferpore districts, the Gya and Shahabad districts, and the western parts of Chutia Nagpur. To the east of these districts, up to a line running nearly north from the mouth of the Hooghly, the rainfall increases from 2 up to 5 inches. To the east of this, up to a line passing through Rungpore, Jamalpore, Mymensing, Bramunboriah, Comilla, and Cox's Bazar, the average rainfall increases eastwards from 5 to 10 inches. To the east of that line it exceeds 10 inches, and increases rapidly in amount towards the Garo and Khasia Hills and towards the Dooars, and at Buxa, in the Western Dooars, the average rainfall in May is not less than 20·77 inches

The meteorology of May is generally rather important, for about the second or third week the south-west monsoon makes its appearance in the south of the Bay, and gives heavy rain and fairly strong winds at the South Ceylon stations. The monsoon current gradually creeps up the east of the Bay, and rain sets in along the Arakan coast towards the close of the month, and it afterwards spreads into East and North Bengal early in June.

In the front of the advancing monsoon current frequently cyclonic storms arise, which are sometimes small and feeble, and at other times larger and of considerable intensity. When these cyclonic storms are formed quite in the south of the Bay, they usually advance towards the Madras coast; but when the storms originate rather later, that is, when the monsoon current has advanced well into the centre of the Bay, the storms which then form appear usually to advance either towards the Arakan coast, or towards the South Bengal coast.

Meteorology of the month.—The principal features of interest in the meteorology of the past month have been —

1. The mean barometric pressure for the month has been in slight defect of the normal along a line running almost north and south through the centre of the province starting from Jessore, while on either side of this band the mean pressure has been in excess of the normal, the excess being largest at such stations as Saugor Island and Cuttack on the one side and Chittagong on the other, where the variations equal about 0·03 inch. The mean pressure over the whole province has therefore been not very far removed from the normal, and an excess pressure of only 0·01 inch is recorded. In Assam the mean pressure has been only seven thousandths of an inch in excess of the normal.

2. The temperature during certain parts of the month has been very largely in excess of the normal, and for the whole month the average temperature of the province has been no less than 3·2° in excess of the normal. The excess has been smallest in Orissa and

East Bengal, where it only equals about 2°, while in North Behar and Chutia Nagpur it exceeds 4°. In Assam, on the other hand, temperature has on the average been below the normal, and a general defect of 0·5° is recorded.

3. Rainfall has been very largely in defect of the normal in all the meteorological districts of Bengal and Behar, and indeed the general rainfall of the whole province does not average more than about 55 per cent. of the normal, and the largest rainfall in any division has been about six inches in East Bengal. On the other hand, particularly heavy rain has fallen in Assam, where Silchar has received nearly 29 inches in the month and Sibsagar nearly 24 inches.

4. The periods of disturbed conditions due to the formation of nor'-westers were few. In East Bengal some local storms with rain occurred in the first few days of the month, but the disturbance did not extend to other districts. A more general period of disturbance occurred in the middle of the month, and rain fell on one or more days between the 14th and 17th at almost all stations in the province except in Behar and Chutia Nagpur. A further and more extensive series of disturbances commenced about the 20th, and from this date up to the 26th rain showers were numerous in all districts over the whole province In the hills to the north of Bengal, conditions appear to have been disturbed for the greater part of the month, and at some stations rain has fallen almost daily

5. In the south of the Bay no strong advance of monsoon winds was noticed until about the 19th of the month, when from that date up to the 23rd rather strong winds prevailed at Galle. The advance certainly progressed as far as the centre of the Bay, and on the 22nd a cyclonic whirl commenced to form near the Andamans, and the ships navigating that part of the Bay reported on this day rather squally unsettled weather. The small whirl, however, had no time to develop into a storm, as it passed inland over the Gulf of Martaban during the same night, giving only very moderate winds, but it appears to have initiated the rainy season in the south of Burma. From the 23rd to nearly the end of the month the monsoon winds blowing in the south of the Bay were only of moderate force except on the 26th and 31st, but on the latter date a second and very much stronger advance of monsoon winds made itself felt at the Ceylon stations.

At the commencement of May, ordinary hot weather conditions generally obtained in the province of Bengal, though temperature was exceptionally high. Owing perhaps also to this exceptionally high temperature which would indicate that the differences between the temperature over the sea and land must have been decidedly larger than usual, exceptionally strong southerly winds were blowing from the sea over the head of the Bay. Winds, though thus much stronger than usual, were of almost normal directions. Rainfall at this time was entirely absent except at a few stations in East and North Bengal. These conditions remained practically unaltered for the first ten or twelve days of the month, but from the 10th to the 12th a feeble barometric depression gradually formed over the west of the province, which was attended by a feeble cyclonic circulation of winds. This feeble depression apparently was connected with a shallow general low-pressure area which was formed over Bengal about the 14th, after which a series of local storms occurred in all districts except Behar and Chutia Nagpur, the disturbed conditions lasting from one to about three days in different districts Normal hot weather conditions then set in for a few days, but on the 21st a series of very irregular barometric changes occurred, which was again followed by disturbed weather, and for several days local storms with rain were numerous in all districts of the province In this instance, hovever, these storms do not appear to have followed the formation of any area of barometric depression, for they simply followed and were attended by a series of rather large and decidedly irregular changes of the barometer. Thus for the greater part of the month fairly normal hot weather conditions prevailed over the province. In the Bay also the meteorological conditions have been fairly normal. but the two strong advances of monsoon winds, which, as stated above, took place from the 19th to the 23rd, and again quite at the close of the month, have not progressed so far up the Bay to in any way influence the weather in Bengal in May. So far, then, as can be judged, conditions are fairly normal for the period, and it would appear probable that the monsoon rains will commence in Bengal at about the ordinary date

Pressure—At the commencement of the month was generally decidedly below the normal, the defects being smallest in the western and southern districts and largest in the north of the province, where an average defect of about a tenth of an inch was indeed recorded at many stations. During the second week pressure became above the normal, but the relative defect in the north of the province still remained a prominent feature. In the third week pressure became more normal, and while the southern stations showed an excess of 0·04 inch, at the northern stations there was a defect of 0·01 inch. For the fourth week in the month also the average pressure in the province was not very far removed from the normal; so that, taking all the readings for the month into consideration, the mean pressure at most stations has been very nearly normal, and the maximum variation from the normal is an excess of about 0·03 inch at Cuttack and Saugor Island; while on the other hand a defect of 0·014 inch is recorded at Berhampore, and one of 0·019 at Beauleah. Pressure has therefore been in defect in the centre of the province and in excess in the western and eastern districts. For the whole province the mean pressure has been about 0·01 inch in excess of the normal. In Assam,

Silchar records an excess pressure of 0·022 inch, and Sibsagar one of 0·009 inch, while at Dhubri pressure has been in defect by 0·008 inch, thus showing that there has been a mean excess pressure of 0 007 inch in Assam.

Temperature.—The main feature of interest in the temperature of May has been the extraordinarily high mean temperature recorded at many stations during the first half of the month, when temperatures of from 10° to 15° in excess of the normal mean were registered at many stations This large excess was perhaps more noticeable in the night or minimum rather than in the day or maximum temperatures For the whole province an excess of no less than 3·4° over the normal mean temperature has been recorded. while in Chutia Nagpur the excess is no less than 4·4°. The highest recorded maximum temperatures during the month have been 115 5° at Raneegunge, 115·1° at Bankoorah, 114 6° at Gya, and 114·5° at Dehroo. In Assam the mean temperature has been 0 5° below the normal for the month.

Rainfall.—As has been previously stated, rainfall has been decidedly scanty throughout the province for the month. East Bengal has received the largest amount, and averages a fall of 6·19 inches, or about three inches less than the normal. North Bengal, South-West Bengal and Orissa have each received an average amount of about three inches, while Behar and Chutia Nagpur have only received falls varying from an inch to an inch and a half. Comparing the actual average rainfalls in each district with the normal falls for May, and expressing them as a percentage of these, the following numbers are obtained :—Orissa 76 per cent, East Bengal 67 per cent., South Behar 58 per cent., South-West Bengal 55 per cent., Chutia Nagpur 46 per cent., North Behar 43 per cent., and North Bengal 40 per cent Taking these districts as having an equal value in the calculation, the rainfall over the whole of Bengal during May was equal to 55 per cent. only of the normal fall.

Taking up the rainfall rather more in detail, it must be first stated that the amounts recorded in neighbouring districts vary very largely Thus while the Dinagepur district has received an average of 0·73 inch, or about a tenth of its usual fall, in the Pubna district, only a short distance to the south-east, an average fall of 5·94 inches is recorded, which is about five-sixths the usual fall for May. The same fact also is even more strikingly noticeable when the falls at neighbouring stations are compared. With these large variations it is impossible to give any general short description of the distribution of the rainfall except to say that the falls have been heaviest in the Darjiling Hills districts and in the eastern districts of East Bengal, where in some cases falls of from 10 to 15 inches are recorded, and the falls have been smallest in the extreme western districts of the province, where an average fall of only about a third of an inch is recorded. At some stations, such as Pupri in the Mozufferpore district, Mohania in the Shahabad district, and Ramghur in the Hazaribagh district, no rain at all appears to have fallen.

The variations of the actual falls from the normals also show very large differences, and while the province on the whole has received only about half the normal fall for the month, there are yet some areas where excess falls have been registered. The principal areas where a rainfall above the normal has thus been registered are—first, one in East Bengal represented by such stations as Naraingunge, Atia, and Goalundo and Serajgunge in North Bengal; a second area a little to the west of the centre of the province, and represented by such stations as Berhampore, Kandi, Lalbagh, Soory, Hetampur, Rampore Haut, Raneegunge, Bankoorah, Nya Doomka and Godda; a third small area in Behar represented by the stations Patna, Barrh, Begooserai; and another in Orissa represented by the stations Cuttack, Jajpore, Bhuddruck and Sorah. The remainder of the province is in defect, and the defect over a considerable area of the eastern half of the province exceeds five inches of rainfall. This is the case over a considerable part of the Furreedpur and part of the Tipperah district, and over considerable parts of the Bogra, Dinagepur and Rungpore districts. Indeed the districts in which the defective rainfall in the month has been most pronounced have been Dinagepur, Khoolna, Maldah and Gya, where the rainfalls are less than 20 per cent. of the normal amounts, and in Bogra, Rajshahye, Rungpore, North Bhagulpore, Shahabad, Chumparun, Mozufferpore, Hooghly, Nuddea and Jessore, where the falls are less than 40 per cent. of the normal.

The following table gives full data for the comparison of the actual and the normal rainfall of the month of May in all districts of the province. The figures are derived from the average and actual rainfall of the rain-recording stations in each district, due allowance or weight being made for the area which each station represents. This gives a more accurate average than the arithmetical means given in the weekly and monthly meteorological tables. The first column gives the normal or average district rainfall as determined from the rainfall observations of the past 15 years. The second column gives the actual district rainfall as determined from the weighted actual rainfalls of the month at the reporting stations in each district. The third column expresses the ratio of the actual district rainfall of the past month to the normal rainfall as a percentage. The fourth column gives the same information as the third column in a slightly different form. It states as a percentage

how much the district rainfall of the month varied in excess or defect from the normal rainfall, and is hence the difference between the numbers in the third column and 100 :—

Percentage Table for May 1889.

Division.	District.	Normal district rainfall for May.	Actual district rainfall for May 1889	Percentage of actual to normal rainfall.	Percentage excess (+), deficit (−).
Orissa	Pooree	2·76	1·12	40	— 60
	Cuttack	3·95	3·34	85	— 15
	Balasore	4·95	4·59	93	— 7
South-West Bengal	Midnapore	5·05	2·45	48	— 52
	24-Pergunnahs	5·79	3·22	56	— 44
	Howrah	5·81	3·68	63	— 37
	Hooghly	5·31	1·75	33	— 67
	Burdwan	5·01	3·59	72	— 28
	Bankoora	4·03	3·43	85	— 15
	Beerbhoom	3·40	4·15	122	+ 22
	Nuddea	6·35	2·38	37	— 63
	Khoolna	6·61	0·90	14	— 86
	Jessore	7·01	2·67	38	— 62
	Moorshedabad	5·21	5·40	104	+ 4
East Bengal	Chittagong	6·54			
	Backergunge	7·80	3·80	49	— 51
	Noakholly	10·05	5·8[illegible]	58	— 42
	Furreedpore	8·80	3·93	45	— 55
	Dacca	8·70	8·16	94	— 6
	Tipperah	10·21	6·03	59	— 41
	Mymensingh	9·94	8·16	82	— 18
North Bengal	Pubna	7·11	5·94	84	— 16
	Bogra	7·91	1·98	25	— 75
	Rajshahye	6·09	1·47	24	— 76
	Maldah	4·50	0·70	16	— 84
	Dinagepore	6·45	0·73	11	— 89
	Rungpore	11·24	3·90	35	— 65
	Cooch Behar	13·86	9·60	69	— 31
	Julpigoree	11·96	6·56	55	— 45
	Darjeeling	7·70	4·84	63	— 37
North Behar	Purneah	5·50	2·57	47	— 53
	North Bhagulpore	3·96	1·28	32	— 68
	Durbhunga	2·68	1·61	60	— 40
	Mozufferpore	2·51	0·61	24	— 76
	Chumparun	2·60	0·95	37	— 63
	Sarun	1·92	0·99	52	— 48
South Behar	Shahabad	1·30	0·36	28	— 72
	Gya	1·74	0·30	18	— 82
	Patna	2·18	2·24	103	+ 3
	Monghyr	2·34	1·60	68	— 32
	South Bhagulpore	2·64	1·12	54	— 46
	Sonthal Pergunnahs	3·75	2·62	70	— 30
Chutia Nagpur	Hazaribagh	2·38	1·20	50	— 50
	Lohardugga	2·35	1·08	46	— 54
	Singbhoom	4·17	1·96	47	— 53
	Manbhoom	3·25	1·87	57	— 43

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of May 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month	Of month.			Rainy days.			Since 15th May 1889	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month	Normal average number in month	Variation.	Average	Normal average.
Orissa	110·9	71·8	94·3	80·1	87·3	+1·6	2·93	3·89	—0·96	6·0	7·0	—1·0	2·65	2·1[illegible]
South-West Bengal	115·5	69·2	101·7	80·0	90·9	+3·5	2·95	5·41	—2·46	5·2	9·0	—3·8	2·72	2·71
East Bengal*	101·8	67·6	92·3	77·0	84·7	+2·1	6·19	9·27	—3·08	10·0	12·6	—2·6	3·89	4·10
North Bengal	110·3	51·9	96·8	75·4	86·5	+3·6	3·45	8·68	—5·23	6·8	11·3	—4·5	2·67	5·55
North Behar	113·2	64·8	101·8	77·0	90·[illegible]	+1·1	1·36	3·20	—1·84	2·1	5·0	—2·9	1·36	1·8[illegible]
South Behar	114·6	67·5	105·6	79·5	92·6	+3·6	1·39	2·40	—1·01	2·5	4·2	—1·7	1·38	1·60
Chutia Nagpur	109·0*	68·2*	102·2*	77·9*	90·0*	+4·4*	1·21	2·72	—1·51	4·0	6·0	—2·0	1·21	1·75

* Chyebassa not included.

Meteorological Office, Bengal,
The 10th June 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division	District	Representative station	STATION OBSERVATIONS. Air Pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level	Variation from mean	Wind. Prevailing direction	Mean wind velocity	Temperature. Highest during week	Date	Lowest during week	Date	Mean maximum temperature	Mean minimum temperature of week	Mean daily temperature of week	Variation from normal mean of week	Mean, 8 A.M., temperature
Orissa	Pooree	Pooree	29·658	29·670	—	SW & calm.	285	92·6	6th, 7th June.	79·0	4th June	91·6	82·0	86·8	—	86·8
		Gopalpore	29·645	29·695	+·048	SSW	425	92·2	3rd, 4th June.	82·3	5th "	91·4	84·3	87·9	+1·6	88·2
		False Point	29·655	29·676	+·032	SSW	409	93·0	3rd "	82·7	7th "	92·4	83·4	87·9	+1·4	88·6
	Cuttack	Cuttack	29·590	29·670	+·047	S	159	106·4	6th "	76·3	7th "	103·8	82·8	93·3	+3·0	89·2
	Balasore	Balasore	29·595	29·653	+·024	SSW	288·9	100·5	1st, 2nd, 5th June.	76·7	5th "	98·5	81·1	89·8	+2·0	87·5
South-West Bengal	South-West Midnapore South 24-Pergunnahs	Saugor Island	29·651	29·677	+·045	SSW	583	96·2	6th, 7th June.	79·5	4th "	95·2	85·1	90·2	+3·1	89·5
	Midnapore	Midnapore	29·409	29·648	+·030	Southerly	360·9	105·4	1st, 6th "	76·3	6th "	102·2	81·5	91·9	+2·3	88·6
	24-Pergunnahs Howrah Hooghly	Calcutta	29·640	29·661	+·038	SW	233	97·5	7th "	72·7	4th "	95·4	81·2	88·3	+2·4	87·2
	Burdwan	Burdwan	29·532	29·631	+·025	S	209·3	104·2	6th "	75·4	4th "	101·5	82·6	94·0	+4·1	87·3
	Bankoora	Bankoora	29·309	29·608	+·009	S	242·3	111·1	1st "	77·5	7th "	106·7	81·9	94·3	+6·2	87·5
	Beerbhoom West Burdwan	Raneegunge	29·285	29·589	+·004	S	138·3	116·5	1st "	73·4	7th "	107·1	81·0	94·1	+5·4	87·8
	Moorshedabad	Berhampore	29·577	29·644	+·019	S	192·2	103·7	1st, 2nd June.	75·8	4th "	100·6	80·4	90·5	+4·5	86·0
	Nuddea	Krishnaghur	29·607	29·673	+·040	S	302·3	102·8	1st "	75·3	4th "	100·2	81·1	90·7	+4·5	8[illegible]·7
	Jessore Khoolna	Jessore	29·641	29·674	+·035	S	157·4	101·3	6th "	73·4	6th "	99·1	80·0	89·7	+4·1	87·8
East Bengal	Chittagong	Chittagong	29·650	29·745	+·041	SE	166·7	93·2	4th "	74·0	5th "	92·2	78·0	85·6	+4·2	81·4
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29·680	29·701	+·046	S	189·1	94·8	3rd June	74·4	6th "	95·7	79·0	85·4	+5·2	86·0
	Noakholly	Noakholly	29·687	29·730	—	SSE	200·7	93·0	3rd "	71·3	5th, 6th June.	91·6	77·7	84·7	—	86·8
	Furreedpore	Furreedpore	29·660	29·699	+·062	South-easterly.	215	97·5	3rd "	70·9	4th "	95·1	77·7	86·4	+3·8	85·1
	Dacca	Dacca	29·681	29·704	+·045	South-easterly.	169·9	96·1	4th "	70·7	4th "	92·7	77·2	85·0	+1·6	84·2
	Tipperah	Commillah	29·687	29·723	+·049	SE	?	94·3	2nd to 4th June.	69·8	5th "	93·4	75·1	83·9	+2·3	84·1
	Mymensingh	Mymensingh	29·658	29·710	+·049	ESE	170·5	94·3	3rd "	71·1	5th "	87·9	73·8	80·9	−1·2	79·1
North Bengal	Bogra	Bogra	29·617	29·680	+·056	ESE	125·4	104·3	1st "	75·8	6th, 7th June	93·2	75·5	84·3	0	81·9
	Pubna	Serajgunge	29·645	29·692	+·044	South-easterly	155·8	95·1	3rd "	72·2	7th "	91·0	76·0	83·4	+0·8	82·7
	Rajshahye	Rampore Beauleah.	29·591	29·661	+·047	South-easterly.	321·8	105·0	1st "	74·6	4th "	99·0	79·5	89·2	+4·7	85·5
	Maldah	Maldah	29·578	29·650	—	NE	54·4	103·3	2nd "	76·1	4th "	100·5	79·5*	90·1*	—	83·5
	Dinagepore	Dinagepore	29·560	29·652	+·053	E	213*	99·6	1st "	73·1	6th, 7th "	90·5	75·0	82·9	−1·4	76·8
	Rungpore	Rungpore	29·594	29·721	+·054	ENE	145	95·3	1st "	70·7	6th "	87·2	73·1	80·2	−1·8	75·4
	Julpigoree Cooch Behar	Julpigoree	29·424	29·715	+·031	E	64·9	92·0	1st "	68·8	5th, 7th June.	86·7	69·7	78·2	−2·5	76·4
	Darjeeling Hill Tracts	Darjeeling	22·915	—	+·014	ESE	163	67·1	2nd "	54·1	7th "	63·7	55·9	59·9	+1·1	58·7
North Behar	Purneah North Bhagulpore	Purneah	29·537	29·664	+·036	E	60·4	105·3	2nd "	76·4	3rd, 4th, 6th June.	97·3	77·8	87·6	+2·2	81·6
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga	29·469	29·634	+·011	ESE	253	104·9	2nd June	79·3	6th "	99·2	81·7	90·5	+4·3	85·3
	Chumparun	Motihari	29·389	29·615	+·006	ESE	309	107·8	1st "	73·8	4th "	101·4	79·8	90·6	+4·8	84·7
	Sarun	Chupra	29·400*	29·508*	−·026	E	200·8	112·2	1st "	74·1	6th "	103·9	80·4	92·1	+3·1	87·1
South Behar	Shahabad	Dehree	29·223	29·570	−·025	ENE	286·0	115·5	1st, 2nd June.	82·0	5th "	111·1	84·1	97·6	+8·3	91·2
		Buxar	29·339	29·578	−·025	E	261·0	111·4	1st "	79·7	6th "	106·8	82·6	94·8	+3·4	88·8
		Arrah	29·409	29·604	+·006	E	145·2	112·4	1st "	73·2	6th "	104·9	80·6	92·8	+2·6	86·8
	Gya	Gya	29·216	29·588	−·009	ENE	154·7	114·6	2nd "	81·5	6th "	110·6	85·0	97·8	+6·4	90·5
	Patna	Bankipore	29·416	29·599	−·015	E	192·7	112·1	1st "	78·2	6th "	103·2	80·5	91·8	+2·1	85·5
	South Bhagulpore Monghyr	Bhagulpore	29·456	29·618	+·012	E	224	109·3	1st "	76·0	4th "	99·2	79·0	89·2	+3·1	84·3
	Sontha Pergunnahs	Doomka	29·111	29·600	—	SE	330·9	107·9	1st "	79·2	7th "	103·5	82·2	92·9	—	87·1
Chota Nagpore	Hazaribagh	Hazaribagh	27·631	29·584	−·004	SW	279·9	109·5	2nd, 3rd June.	74·6	6th "	107·1	81·7	94·4	+7·7	89·5
	Lohardugga Manbhoom	Ranchee	27·518	29·589	+·043	SW	210·7	110·0	5th "	74·4	7th "	107·1	81·0	94·1	+8·3	88·0
	Singhbhoom	Chyebassa	28·851	29·601	—	South-westerly.	107·9	111·8	5th "	78·7	5th "	109·1	83·2	96·2	—	89·3
Assam	Assam	Sibsagar	29·449	29·788	+·074	Variable		86·6	7th "	71·9	3rd, 4th June.	82·4	73·6	78·0	−3·9	76·1
		Dhubri	29·607	29·726	+·047	ENE	329·0	89·7	1st "	72·8	2nd, 3rd, 7th June.	82·3	73·6	78·0	−3·3	74·4
		Silchar	29·668	29·773	+·072	ENE		90·5	1st "	71·8	4th "	83·7	73·7	78·7	−3·3	75·8

* Mean of 6 days.

Explanation—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past 21 stations in the district sending in returns divided by the number of stations. A rainy days is one on which at least hundredth of an inch fell.

for the week ending Friday, the 7th of June 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. — RAINFALL. — Of week. — Mean for district.	Of week. — Normal mean.	Since 1st of month. — Mean for district.	Since 1st of month. — Normal mean.	Since 1st of month. — Variation.	Since 15th May 1889. — Mean for district.	Since 15th May 1889. — Normal mean.	Since 15th May 1889. — Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
89	4·1	Nil	Nil	1·03	Nil	1·03	—1·03	1·13	2·75	—1·62	0·0	1·8	Pooree ...	Pooree	Orissa.
80	1·3	0·04											Gopalpore ...		
86	3·4	Nil											False Point ...		
66	5·0	0·81	0·96	1·09	0·96	1·09	—0·13	3·58	3·18	+0·40	1·8	2·0	Cuttack ...	Cuttack	
79	0·1	Nil	0·89	1·22	0·89	1·22	—0·33	4·25	3·76	+0·49	1·3	2·0	Balasore ...	Balasore	
78	7·0	Nil	0·17	1·61	0·17	1·61	—1·44	3·17	3·88	—0·71	0·3	2·2	Saugor Island ...	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
73	2·1	1·50	0·44	2·03	0·44	2·03	—1·59	2·96	4·16	—1·20	0·3	2·4	Midnapore ...	Midnapore	
77	5·4	0·40	0·91	2·17	0·91	2·17	—1·26	2·96	4·80	—1·84	1·0	2·9	Calcutta ...	24-Pergunnahs ...; Howrah ... ...; Hooghly	
68	3·3	1·08	1·31	1·88	1·31	1·88	—0·57	4·30	4·50	—0·20	1·7	2·7	Burdwan ...	Burdwan	
74	1·1	1·24	0·86	1·91	0·86	1·91	—1·05	3·9[illegible]	3·98	—0·05	1·3	2·4	Bankoora ...	Bankoora	
69	1·3	0·60	1·04	1·45	1·04	1·45	—0·41	5·33	3·43	+1·90	1·3	2·4	Raneegunge ...	Beerbhoom ... ...; West Burdwan ...	
81	6·4	0·52	0·72	1·78	0·72	1·78	—1·06	5·50	4·80	+0·70	1·2	2·7	Berhampore ..	Moorshedabad	
71	1·4	0·50	0·78	2·34	0·78	2·34	—1·56	2·32	5·86	—3·54	1·0	3·0	Krishnaghur ...	Nuddea	
79	7·6	4·05	2·00	2·45	2·00	2·45	—0·45	3·58	5·73	—2·15	2·3	3·3	Jessore ...	Jessore ... ...; Khoolna	
79	7·1	0·84	2·57	5·36	2·57	5·36	—2·79	4·02	10·61	—6·59	3·0	4·3	Chittagong ...	Chittagong	East Bengal.
				4·39		4·39			8·66			4·6	Demagiri ...	Chittagong Hill Tracts	
79*	2·7	1·53	1·99	4·31	1·99	4·31	—2·32	5·58	8·19	—2·61	2·5	4·0	Barrisal ...	Backergunge	
78	4·6	5·48	4·72	6·02	4·72	6·02	—1·30	9·12	10·77	—1·65	3·0	4·2	Noakholly ...	Noakholly	
86	3·1	3·45	2·82	2·72	2·82	2·72	+0·10	5·56	7·05	—1·49	2·3	3·3	Furreedpore ...	Furreedpore	
87	7·7	5·48	3·67	2·44	3·67	2·44	+1·23	9·30	6·34	+2·96	4·0	3·6	Dacca ...	Dacca	
81	2·9	7·80	5·10	3·49	5·10	3·49	+1·61	8·37	7·76	+0·61	4·3	4·0	Commillah ..	Tipperah	
91	8·7	5·88	5·23	3·59	5·23	3·59	+1·64	10·27	8·54	+1·73	4·8	3·5	Mymensingh ...	Mymensingh	
87	7·7	4·25	2·61	3·26	2·61	3·26	—0·65	4·37	7·82	—3·45	3·8	3·0	Bogra ...	Bogra	North Bengal.
88	7·0	2·90	2·24	2·65	2·24	2·65	—0·41	6·03	6·48	—0·45	3·5	3·2	Serajgunge ...	Pubna	
79	5·0	2·29	1·28	2·00	1·28	2·00	—0·72	2·04	5·71	—3·67	2·5	2·8	Rampore Beauleah	Rajshahye	
83	5·3	0·29	0·27	1·55	0·27	1·55	—1·28	0·97	4·38	—3·41	1·0	2·5	Maldah ..	Maldah	
88	9·4	2·68	0·95	2·32	0·95	2·32	—1·37	1·68	6·71	—5·03	3·6	2·4	Dinagepore ...	Dinagepore	
94	9·0	7·39	7·43	4·00	7·43	4·00	+3·43	10·98	11·40	—0·42	5·0	3·5	Rungpore ...	Rungpore	
93	7·4	4·48	9·15	5·11	9·15	5·11	+4·04	15·28	14·04	+1·24	6·8	4·3	Julpigoree ...	Julpigoree ... ...; Cooch Behar	
96	9·4	2·62	4·92	3·28	4·92	3·28	+1·64	10·37	10·14	+0·23	5·8	4·7	Darjeeling ...	Darjeeling Hill Tracts	
77	5·9	0·01	0·70	1·22	0·70	1·22	—0·52	2·70	4·27	—1·57	1·8	1·7	Purneah ...	Purneah . ...; North Bhagulpore ...	North Behar.
			0·28	0·50	0·28	0·50	—0·22	0·94	1·86	—0·92	1·3	1·1	Mozufferpore ...	Mozufferpore	
70	2·7	Nil	0·04	0·64	0·04	0·64	—0·60	1·56	2·03	—0·47	0·7	1·2	Durbhunga ...	Durbhunga	
70	1·0	0·21	0·29	0·78	0·29	0·78	—0·48	1·19	2·13	—0·94	1·5	1·3	Motihari .	Chumparun	
72	0·6	0·13	0·52	0·36	0·52	0·36	+0·16	1·65	1·45	+0·20	1·0	1·0	Chupra ..	Sarun	
57	0	Nil											Dehree ...		South Behar.
61	0·7	Nil	0·12	0·15	0·12	0·15	—0·03	0·47	1·05	—0·58	0·4	0·6	Buxar ...	Shahabad	
73	1·4	0·28											Arrah ...		
66	0	Nil	0·06	0·29	0·06	0·29	—0·23	0·40	1·66	—1·26	0·3	0·5	Gya ..	Gya	
72	0	Nil	0·26	0·30	0·26	0·30	—0·04	2·31	1·73	+0·58	0·5	1·0	Bankipore ...	Patna	
77	4·1	0·49	0·55	0·57	0·55	0·57	—0·02	2·18	2·18	0	1·0	1·4	Bhagulpore ...	South Bhagulpore ...; Monghyr ...	
72	1·4	0·16	0·21	1·21	0·21	1·21	—1·00	2·52	4·64	—2·12	1·0	2·2	Doomka ...	Sonthal Pergunnahs...	
47	0·6	0·30	0·18	0·75	0·18	0·75	—0·57	1·43	2·32	—0·89	0·6	1·6	Hazaribagh ...	Hazaribagh	Chota Nagpur.
60	1·0	0·02	Nil	0·54	Nil	0·54	—0·54	1·04	2·38	—1·34	0·0	1·6	Ranchi ...	Lohardugga ...	
			0·62	1·12	0·62	1·12	—0·50	2·32	2·78	—0·46	2·0	1·9		Maunbhoom	
61	3·0	1·86	1·70	0·92	1·70	0·92	+0·78	3·66	3·49	+0·16	5·0	2·7	Chyebassa ...	Singbhoom ...	
95	9·9	9·69											Sibsagar	Assam	Assam.
95	10·0	12·22											Dhubri		
95	9·9	9·44											Silchar ...		

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal mean
years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of June 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 1st June 1889.	Sunday, 2nd June.	Monday, 3rd June.	Tuesday, 4th June.	Wednesday, 5th June.	Thursday, 6th June.	Friday, 7th June.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA	Pooree	Pooree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·85	1·06	2·32
		Khurdah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·93	1·12	3·04
		Banpur	...	...	...	...	...	...	...	Nil	Nil	Nil	1·27	1·20	2·13
		False Point	...	...	...	...	...	...	...	Nil	Nil	Nil	1·06	1·13	3·46
		Gop											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·35	2·11	1·77
		Banki	...	...	...	...	...	...	...	Nil	Nil	Nil	1·13	0·41	2·78
		Cuttack	...	...	...	0·26	...	0·78	...	2	1·04	1·04	1·12	4·33	3·93
		Kendrapara	...	...	...	...	...	...	0·09	1	0·09	0·09	1·35	2·91	3·37
		Jajpore	...	...	...	...	0·63	...	0·47	2	1·10	1·10	1·50	5·56	4·03
		Dharmsala	...	...	...	...	0·70	...	0·90	2	1·60	1·60	?	4·00	?
		Salipore											?		?
	Balasore	Chandbali	...	...		...	...	...	...	Nil	Nil	Nil	1·14	3·43	3·59
		Bhuddruck	...	...	...	...	0·57	0·71	0·41	3	1·69	1·69	1·47	6·77	4·51
		Sorah	1·20	0·40	1·00	0·10	...	...	...	4	2·70	2·70	1·01	7·66	4·08
		Balasore											1·07		3·88
		Jellasore											1·32		3·04
		Baripodah	...	...	...	0·94	...	...	...	1	0·94	0·94	1·32	3·22	3·46
SOUTH-WEST BENGAL.	Midnapore	Contai	...	...	...	...	...	...	...	Nil	Nil	Nil	1·58	1·77	3·72
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	1·73	2·13	4·16
		Tumlook	...	...	...		...		...	Nil	Nil	Nil	1·60	1·70	4·02
		Midnapore	...	...	...	...	...	1·32	...	1	1·32	1·32	1·85	3·81	3·83
		Ghattal	...	...	...	...	...	...	...	Nil	Nil	Nil	2·65	3·38	4·63
		Kukrahaty	...	...	...	1·23	...	...		1	1·23	1·23	?	5·57	?
		Heria	...	...	...		...		...	Nil	Nil	Nil	?	5·48	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	4·67	?
		Garbetta	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
	24-Pergunnahs	Diamond Harbour	...	...	...	0·52	...	...		1	0·52	0·52	1·51	5·60	3·76
		Canning Town	...	...	...	0·43	...	...	0·49	2	0·92	0·92	?	4·73	?
		Alipore Jail	...	...	...	0·35	...	...	...	1	0·35	0·35	2·37	4·27	4·81
		Barrackpore	...	...	...	1·45	...	...	...	1	1·45	1·45	2·84	3·07	5·06
		Dum-Dum	...	...	...	1·88	...	...		1	1·88	1·88	2·01	4·30	4·87
		Barasot	...	...	...	...	...	...		Nil	Nil	Nil	2·16	2·04	4·93
		Buscerhat	...	...	...	...		0·56	0·82	2	1·38	1·38	2·21	3·18	5·34
	Howrah	Howrah	...	...	0·36	...	...	...	...	1	0·36	0·36	1·82	2·50	4·01
		Mohesreka (*Ooloberiah.*)	...	...	...	1·07	...	...	...	1	1·07	1·07	2·18	2·68	4·76
	Hooghly	Serampore	...	...	...	1·60	...	...	...	1	1·60	1·60	2·59	3·56	4·60
		Hooghly	...	...	0·92		...	0·13	...	2	1·05	1·05	1·86	2·44	4·46
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	1·63	1·63	4·38
	Burdwan	Culna	...	...	...	1·93		...	...	1	1·93	1·93	1·77	4·65	3·98
		Burdwan	...	...	...	0·28	...		0·80	2	1·08	1·08	1·21	5·44	4·03
		Cutwa	...	...	0·77	...	...		0·15	2	0·92	0·92	2·65	2·82	5·52
		Raneegunge	...	...	...		...	0·22	0·38	2	0·60	0·60	1·09	5·62	3·10
		Mankur	...	...	...	...	...		0·30	1	0·30	0·30	?	4·33	?
	Bankoora	Bankoora	...	...	0·55	...	...	0·08	0·67	3	1·30	1·30	1·91	5·10	4·15
		Bishenpore	...	...	...	...		...	0·17	1	0·17	0·17	2·15	3·35	4·39
		Mahara	...		...	...	...	1·95	...	1	1·95	1·95	1·87	4·05	3·70
		Khatra	...	...	...	...		...		Nil	Nil	Nil	1·70	3·10	3·66
		Indas	...	...	...	...	...	...	1·98	1	1·98	1·98	?	5·78	?
		Kotalpore	...	...	...	0·07	...	...	...	1	0·07	0·07	?	2·26	?
		Anda	...	...	...	...	...	0·15	...	1	0·15	0·15	?	1·00	?
		Gangajalghati	...	...	0·21	...	...	...	...	1	0·21	0·21	?	3·27	?
		Raipore	...	...		...	...	...	0·57	1	0·57	0·57	?	1·99	?
		Sonamukhi	...	...	0·46	...	...	...	0·97	2	1·43	1·43	?	0·38	?
	Beerbhoom	Bh. Soory	...	...	...	...	...	...	0·49	1	0·49	0·49	1·45	4·39	3·66
		Hetampore	...	...	...	...	...	2·12	...	1	2·12	2·12	1·27	7·42	2·98
		Rampore Haut	...	...	...	0·95	...	...	...	1	0·95	0·95	1·88	3·87	2·88
		Bolpore	...	...	...	0·51	...	...	0·23	2	0·74	0·74	?	4·59	?
		Murarai	...	...	...	0·22		...	...	1	0·22	0·22	?	3·88	?
	Nuddea	Ranaghat	...	...	...	0·48	...	...	...	1	0·48	0·48	2·37	2·56	5·25
		Kishnaghur	...	...	...	0·61	...	...	...	1	0·61	0·61	2·22	2·12	5·10
		Chooadanga	...	...	...	0·60	...	...	1·50	2	2·10	2·10	2·09	3·40	6·56
		Moherpore	...	...	...	0·08	...	...	...	1	0·08	0·08	2·14	2·37	5·40
		Kooshtea	...	...	...	0·62	...	...	...	1	0·62	0·62	2·89	2·10	7·02
	Khoolna	Satkhira	...	...	...	...	0·57	0·36	...	2	0·93	0·93	2·10	1·95	5·09
		Bagirhat	...	...	...	0·10	...	...	1·67	2	1·77	1·77	2·53	2·56	5·81
		Khoolna	...	...	...	0·14	...	...	1·14	2	1·28	1·28	2·21	1·72	4·97
	Jessore	Narail	...		...	0·10	...	...	0·10	2	0·20	0·20	2·56	3·39	5·50
		Jessore	...	...		0·03	...	3·55	0·47	3	4·05	4·05	2·02	6·11	6·08
		Jhenidah	...	...	...	0·27	...	0·50	0·12	3	0·89	0·89	2·97	1·86	6·53
		Magoorah	...	...	...	1·08	...	3·11	...	2	4·19	4·19	2·18	7·08	6·63
		Bongong	...	...	...	0·49	...	...	2·20	2	2·69	2·69	2·10	3·02	5·15
	Moorshedabad	Kandi	...	...	...	0·35	...	...	1·00	2	1·35	1·35	1·91	6·17	7·50
		Berhampore	...	...	...	0·52	...	...	...	1	0·52	0·52	1·84	8·02	4·97
		Lalbagh	...	...	...	0·35	...	...	...	1	0·35	0·35	1·97	5·74	5·25
		Aurungabad	...	...		0·60	...	...	...	1	0·60	0·60	1·89	4·93	5·23
		Jungipore	...	...	...	0·38	...	...	...	1	0·38	0·38	1·42	3·28	4·45
		Lalgola	...	...	...	1·10	...	...	...	1	1·10	1·10	1·61	5·40	4·91
		Jiagunje	...	...	...	0·61		...	...	1	0·61	0·61	?	4·83	?
		Akhrigunj	...	...		0·52	...	...	...	1	0·52	0·52	?	3·15	?
		Pathabari	...	...	...	0·40	...	...		1	0·40	0·40	?	2·08	?
BENGAL.	Chittagong	Cox's Bazar	...	0·02	...	1·54	2·64	...	0·13	4	4·33	4·33	5·98	5·87	11·43
		Chittagong	...	...	...	0·45	0·35	...	...	2	0·80	0·80	4·73	2·67	9·78
		Kutubdia											?		?
		Satkania	...	...	0·31	0·08	0·15	...	0·16	4	0·65	0·65	?	1·84	?
	Chittagong Hill Tracts.	Rangamati	0·14	...	...	0·15	1·75	...	...	3	2·04	2·04	4·11	6·07	8·61
		Ruma											4·08		8·72
	Backergunge	Patuakhally	...	...	...	0·91	...	...	1·93	2	2·84	2·84	5·19	8·22	9·66
		Ferozepore	...	...	...	0·37	...	...	[illegible]	2	1·31	1·31	3·46	3·64	6·79
		Burrisal	...	...	...	0·97	...	0·21	[illegible]	3	1·21	1·21	3·40	4·12	7·56
		Bhola	...	...	...	0·32	...	2·10	0·18	3	2·60	2·60	5·17	6·32	8·68

Statement of Rainfall in Bengal for the week ending Friday (8 a. m.), the 7th of June 1889—contd.

Meteorological Division.	District.	Station.	RAINFALL Saturday, 1st June 1889.	Sunday, 2nd June.	Monday, 3rd June.	Tuesday, 4th June.	Wednesday, 5th June.	Thursday, 6th June.	Friday, 7th June.	TOTAL Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi*	...	...	...	1·15	...	1·32	...	2	2·47	2·47	?	5·44	?
		Bauphal	...	0·20	...	0·20	0·11	0·52	...	4	1·03	1·03	?	2·72	?
	Noakholly	Noakholly	...	...	...	...	0·81	3·03	1·89	3	5·73	5·73	5·57	11·02	10·23
		Fenny	...	...	...	...	0·85	0·65	2·20	3	3·70	3·70	6·46	7·20	11·28
		Harishpore	...			0·30	0·32						?		?
		Ramganj	...	...	0·28	1·02	2·78	2·07	...	4	6·15	6·15	?	7·43	?
	Furreedpore	Madaripore	...	...		1·28		1·33	0·33	3	2·94	2·94	2·88	5·74	7·11
		Furreedpore	...	...	2·18	1·10	0·20	...	...	3	3·48	3·48	3·16	5·30	8·16
		Goalundo	...	...	...	2·05	...	...	...	1	2·05	2·05	2·63	5·63	6·35
	Dacca	Munshigunge	...	...	...	0·68	1·11	1·17	0·09	4	3·05	3·05	3·25	8·81	7·56
		Dacca	...	...	...	0·85	2·16	2·95	0·02	4	5·98	5·98	2·89	9·93	7·10
		Narainganj	...	...	...	0·61	1·25	1·15	0·04	4	3·05	3·05	1·43	10·17	4·46
		Manickgunge	...	...	...	0·89	1·00	0·61	0·10	4	2·60	2·60	2·20	8·29	6·23
		Joydebpore	...	...	...	0·06	0·98	1·81	0·30	4	3·15	3·15	?	6·06	?
	Hill Tipperah / Tipperah	Agartola	...	...	...	1·10	1·72	1·35	0·40	4	4·57	4·57	2·88	8·18	7·24
		Comilla	...	...	...	0·64	1·08	2·56	3·53	4	7·79	7·79	4·15	11·03	8·70
		Chandpore	...	...	...	0·96	1·00	0·40	0·20	4	2·56	2·56	3·83	5·11	7·13
		Brahmunbaria	...	...	0·32	0·25	2·18	1·28	1·45	5	5·48	5·48	3·11	8·56	7·96
		Ramchandrapore	...	...	...	0·67	1·91	0·74	0·04	4	3·36	3·36	?	6·63	?
		Nasirnagar	...	...	...	0·60	0·70	1·70	0·50	4	3·50	3·50	?	7·55	?
		Daudkandi	...	...	...	...	1·50	1·60	...	2	3·10	3·10	?	6·45	?
		Kasba	...	...	...	0·50	2·22	0·87	0·15	4	3·74	3·74	?	7·78	?
		Laksham	...	...	...	...	1·45	2·10	...	2	3·55	3·55	?	5·25	?
	Mymensingh	Kishoregunge	...	...	0·81	2·18	0·11	1·92	0·31	5	5·33	5·33	4·04	8·70	8·95
		Atia (*Tangail*)	...			0·68	0·33		0·69	3	1·70	1·70	2·73	8·14	6·52
		Mymensingh	...	0·52	0·02	0·45	0·12	3·26	1·28	6	5·45	5·45	1·48	10·41	10·47
		Jamalpore	...	...	0·10	0·64	0·88	3·73	...	4	5·35	5·35	3·23	9·07	7·10
		Netrokona	...	0·30	0·17	3·85	1·31	1·44	1·25	6	8·34	8·34	3·45	15·04	9·55
		Subornakhali	...	0·57	...	0·42		0·09	0·50	4	1·58	1·58	?	4·62	?
		Durgapore		1·30	3·00	...	1·50	2·51	2·20	5	10·11	10·11	?	18·90	?
		Sherepore Town		0·23	0·78	1·45	3·24	0·57	1·94	6	8·31	8·31	?	11·41	?
		Dewanganj	...	0·43	...	...	2·64	2·04	0·80	4	5·91	5·91	?	7·24	?
NORTH BENGAL	Pubna	Pubna		...	...	0·90		0·80	...	2	1·70	1·70	2·41	1·97	6·07
		Seraigunge	...	0·03	0·45	0·39	0·74		1·17	5	2·78	2·78	2·85	10·08	6·88
	Bogra	Sherpore	...	0·52	...	0·62	...	0·04	...	3	1·18	1·18	2·59	3·12	7·64
		Nowkhilla		0·82	0·71	0·72	...	0·32	1·01	5	3·38	3·38	3·61	6·78	7·37
		Bogra		1·65	0·97	0·28		0·86		4	3·76	3·76	3·06	4·75	8·54
		Panchbibi	0·15	...	...	0·47	...	1·48	...	[illegible]	2·10	2·10	3·15	2·76	7·75
	Rajshahye	Beauleah	...			2·23	...	0·04	...	2	2·27	2·27	2·26	8·48	5·36
		Nattore		0·0[illegible]	0·06	0·20	...		...	3	0·28	0·28	1·90	0·60	5·47
		Naogaon		...	0·13	...	...	0·30	...	2	0·43	0·43	1·80	1·18	6·25
		Lalpore	...			1·13	0·64	...	...	2	1·77	1·77	?	2·22	?
		Manda		0·16		...	...	...	...	1	0·16	0·16	?	1·06	?
	Maldah	Maldah	...	0·29	...	...	...	...	...	1	0·29	0·29	1·46	1·37	3·97
		Chanchal			...	0·25	...	...	...	1	0·25	0·25	1·63	0·38	4·73
		Gajol		0·06	...	0·23	0·[illegible]0	...	...	3	0·49	0·49	?	0·[illegible]2	?
		Sibgunj		0·08	...	0·01	...		...	2	0·09	0·09	?	2·64	?
	Dinagepore	Mohadebpore	0·33	0·08			0·46	0·12	0·23	5	1·22	1·22	3·28	1·87	7·31
		Churamon	...	...	0·05	0·02	...	...	...	2	0·07	0·07	1·97	0·28	5·34
		Raigunge	...	...	0·14	...	...	...	...	1	0·14	0·14	2·04	0·24	5·78
		Dinagepore	0·05	...	1·24	0·20	...	0·91	0·30	5	2·70	2·70	2·38	3·75	7·36
		Baloorghat	...	0·09	0·01	0·14	0·01	0·39	...	5	0·64	0·64	1·94	2·26	7·75
		Thakoorgaon	...	...	2·19	0·70	0·58	2·28	...	4	5·75	5·75	?	6·63	?
	Rungpore	Bhawanigunge (*Gyabanda*)	...	...	2·02	1·62	1·48	2·28	0·54	5	7·94	7·94	3·72	12·85	9·18
		Rungpore	...	0·03	1·99	0·73	1·60	2·96	0·28	6	7·59	7·59	3·96	10·17	10·91
		Kurigram	...	...	4·23	1·15	1·05	1·58	0·41	5	8·42	8·42	5·04	13·19	13·41
		Bagdogra (*Nilphamari*)	...	...	0·75	1·35	1·45	2·22	...	4	5·77	5·77	3·21	7·70	12·02
		Ulipore	...	...	2·35	1·09	1·15	1·96	0·24	5	0·79	6·79	?	10·58	?
	Julpigoree	Julpigoree	0·17	0·84	2·33	0·08	0·02	0·70	0·39	7	4·53	4·53	4·72	9·94	12·33
		Alipore Door	5·45	3·31	...	2·25	1·33	1·11	1·08	6	14·53	14·53	?	22·95	?
		Fallacotta	0·92	2·85	0·05	0·45	1·08	1·42	0·49	7	7·26	7·26	?	14·27	?
		Debiganj	...	0·04	2·04	0·15	0·87	1·27	0·03	6	4·40	4·40	?	6·88	?
		Bhagatpore (Nagrakatta)	1·18	0·33	...	0·40	0·71	2·06	1·59	6	6·87	6·87	?	14·89	?
	Cooch Behar	Dinhatta	...	0·03	4·87	0·24	2·05	1·56	1·85	6	11·20	11·20	5·76	18·06	15·73
		Cooch Behar	0·85	6·97	0·45	0·40	1·51	2·07	0·37	7	12·60	12·60	7·18	19·76	16·69
		Mekligunge	0·36	0·27	3·93	0·11	0·92	1·12	0·60	7	7·25	7·25	3·59	10·59	12·78
		Matabhanga	0·75	1·90	0·23	1·32	1·55	0·62	3·80	7	10·17	10·17	4·31	18·02	13·27
	Darjeeling Hill.	Buxa	2·92	0·26	0·12	1·83	1·49	1·85	1·24	7	9·71	9·71	6·51	21·14	20·17
		Silliguri	0·44	...	...	0·65	0·09	0·22	0·74	5	2·14	2·14	2·75	6·44	9·18
		Darjeeling	...	0·17	0·15	0·24	0·17	1·89	2·23	6	4·85	4·85	2·60	8·54	7·15
		Kalimpong	...	...	0·06	0·15	0·40	0·19	2·17	5	2·97	2·97	1·21	5·34	4·03
		Kurseong	0·06	...	0·22	0·91	0·40	0·39	0·97	6	2·95	2·95	?	5·90	?
NORTH BEHAR	Purneah	Kissengunge	...	...	0·50	0·05	0·79	1·14	...	4	2·78	2·78	1·72	5·96	5·[illegible]
		Arrareah	...	...	0·15	0·50	...	0·03	...	3	0·68	0·68	1·21	1·92	4·7[illegible]
		Purneah	...	...	0·01	...	...	...	...	1	0·01	0·01	1·01	2·89	4·03
		Gondwara											?		?
		Balarampore	...	...	...	...	...	...	...	Nil	Nil	N[illegible]	?	0·40	?
		Matiari	0·78	...	...	...	...	0·67	...	2	1·45	1·45	?	2·23	?
		Kaliaganj											?		?
	North Bhagulpore.	Maddapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0·66	1·65	3·0[illegible]
		Soopool	...	...	...	...	...	0·02	...	1	0·02	0·02	0·91	1·06	3·09
		Protabganj	...	...	...	...	...	...	2·30	1	2·30	2·30	?	3·20	?
	Durbhunga	Tajpore	...	...	...	...	...	0·04	...	1	0·04	0·04	0·37	1·51	1·53
		Durbhunga	...	...	...	...	...	...	...	Nil	Nil	Nil	0·65	0·21	1·98
		Madhubani	...	...	...	...	...	0·07	...	1	0·07	0·07	0·89	2·93	2·57
		Bahera	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·92	?
		Roshera	...	...	...	0·10	...	0·05	...	2	0·15	0·15	?	1·05	?
	Mozufferpore	Sitamarhi	...	...	...	...	...	0·51	...	1	0·51	0·51	0·72	0·83	2·13
		Mozufferpore	...	...	...	0·07	...	...	...	1	0·07	0·07	0·59	0·52	2·01
		Hajipore	...		...	0·07	...	0·20	...	2	0·27	0·27	0·20	1·18	1·42
		Bara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·60	?
		Mahua	...	...	...	0·40	...	...	...	1	0·40	0·40	?	0·97	?
		Bishar	...	...	0·32	...	...	...	...	1	0·32	0·32	?	0·52	?
		Pupri	...	...	...	...	0·54	...	...	1	0·54	0·54	?	0·54	?
	Chumparun	Motihari	...	...	...	0·12	...	...	...	1	0·12	0·12	0·90	0·64	2·34
		Bettiah	...	...	...	0·43	...	0·03	...	2	0·46	0·46	0·06	1·73	1·33
		Bagaha	...	...	...	0·55	...	0·90	...	2	1·45	1·45	?	3·80	?
		Burhurwa	...	...	...	...	...	0·28	...	1	0·28	0·28	?	2·38	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of June 1889—concld.

Meteorological Division.	District.	Station.	Rainfall, Saturday, 1st June 1889.	Sunday, 2nd June.	Monday, 3rd June.	Tuesday, 4th June.	Wednesday, 5th June.	Thursday, 6th June.	Friday, 7th June.	Total, Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded.*	Sarun	Gopalgunge	...	...	...	...	...	0·59	...	1	0·59	0·59	0·57	2·60	1·71
		Sewan	...	...	...	...	0·76	...	...	1	0·76	0·76	0·31	1·87	1·45
		Chuprah	...	...	...	...	0·20	...	...	1	0·20	0·20	0·20	0·47	1·15
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	...	Nil	Nil	Nil	0·04	0·19	0·74
		Dehree	...	...	...	...	...	...	...	Nil	Nil	Nil	0·06	0·25	1·41
		Bhuboosah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·26	0·20	0·86
		Sasseram	...	...	...	...	...	0·33	...	1	0·33	0·33	0·21	0·54	0·90
		Arrah	...	...	...	...	...	0·25	...	1	0·25	0·25	0·17	1·15	1·35
		Mohaniah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	Nil	
	Gya	Aurungabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	0·93	1·56
		Gya	...	...	...	...	...	...	...	Nil	Nil	Nil	0·24	Nil	1·61
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·31	0·14	1·80
		Jehanabad	...	...	...	...	0·23	...	...	1	0·23	0·23	0·37	0·50	1·08
		Arwal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·40	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·50	?
		Sherghatty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·25	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·10	?
		Pakri Barawan	...	...	...	...	0·70	...	...	1	0·70	0·70	?	2·40	?
	Patna	Patna	...	...	...	...	...	...	...	Nil	Nil	Nil	0·25	2·89	1·84
		Dinapore	...	...	...	...	...	0·20	...	1	0·20	0·20	0·21	0·94	1·45
		Behar	...	...	...	...	...	0·85	...	1	0·85	0·85	0·36	2·43	1·81
		Barh	...	...	...	...	...	...	...	Nil	Nil	Nil	0·39	2·96	1·82
		Bickram	...	...	...	...	...	0·10	...	1	0·10	0·10	?	0·70	?
		Hilsa	...	...	...	...	...	1·20	...	1	1·20	1·20	?	4·03	?
	Monghyr	Begooserai	...	...	...	0·64	...	...	...	1	0·64	0·64	-0·40	3·15	1·86
		Monghyr	...	...	...	0·31	...	...	...	1	0·31	0·31	0·79	1·05	2·48
		Jamui	...	...	...	...	...	1·22	...	1	1·22	1·22	0·47	3·23	1·79
		Gogri	...	...	...	0·45	...	...	...	1	0·45	0·45	?	1·80	?
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·60	?
	South Bhagulpore	Bhagulpore	...	...	...	0·49	...	...	...	1	0·49	0·49	0·63	2·10	2·26
		Banka	...	...	...	0·10	...	...	...	1	0·10	0·10	0·68	1·37	2·54
		Kolgong	...	...	...	0·17	...	...	...	1	0·17	0·17	?	4·08	?
	Sonthal Pergunnahs	Rajmehal	...	...	...	0·04	...	...	...	1	0·04	0·04	1·18	1·69	4·08
		Godda	...	...	...	0·03	...	...	...	1	0·03	0·03	0·88	4·93	3·31
		Pakour	...	...	...	0·16	...	...	0·32	2	0·48	0·48	1·85	2·51	4·92
		Nya Doomka	...	...	...	...	...	...	0·16	1	0·16	0·16	1·32	4·32	3·61
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	Nil	0·84	0·57	2·80
		Jamtara	...	...	...	...	...	...	0·55	1	0·55	0·55	1·17	1·11	3·17
		Mohagama	...	...	...	...	...	...	...	Nil	Nil	Nil	?	1·05	?
		Nunihat	...	...	...	...	...	...	0·19	1	0·19	0·19		1·42	?
CHUTIA NAGPUR.	Hazaribagh	Paonamba (*Giridi*).	...	...	...	...	...	0·09	...	1	0·09	0·09	0·89	1·85	2·48
		Hazaribagh	...	...	...	...	...	0·30	...	1	0·30	0·30	0·83	1·14	2·38
		Semtaguran	...	...	...	...	...	0·50	...	1	0·50	0·50	0·80	1·65	2·31
		Mahudi Hills											0·80		2·23
		Jhoomra Hills	...	...	...	...	...	...	...	Nil	Nil	Nil	0·50	0·81	2·13
		Barhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·43	?
		Chatra	...	...	...	...	...	...	0·18	1	0·18	0·18	?	1·63	?
		Karagdeha	...	...	...	...	...	0·30	...	1	0·30	0·30	?	1·40	?
		Ramghar											?		?
	Loharduggah	Loharduggah	...	...	...	...	...	...	...	Nil	Nil	Nil	0·32	0·70	2·75
		Ranchi	...	...	...	...	...	0·01	...	1	0·01	0·01	0·07	0·73	3·00
		Palamow	...	...	...	...	...	...	...	Nil	Nil	Nil	0·32	1·60	1·39
		Silli	...	...	...	...	...	0·30	...	1	0·30	0·30	?	1·90	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?		?
		Hosseinabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·51	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·65	?
	Singbhoom	Chyebassa	...	...	...		1·23	0·28	0·19	3	1·70	1·70	0·92	3·66	3·49
		Chakradharpore.	...	...			1·12	...	...	1	1·12	1·12	?	3·65	?
		Ghatsilla			...	0·39							?		?
		Baharagura	...	0·17									?		?
	Manbhoom	Purulia	...	...	0·20	...	...	0·58	0·11	3	0·89	0·89	1·01	2·87	3·08
		Gobindpore	...	...	...	...	...	0·35	...	1	0·35	0·35	1·23	1·73	2·47
		Raghunathpore.	...	...		...	...	0·03	...	1	0·03	0·03	?	1·58	?
		Barrabhoom.	...	...		...	...	...	...	Nil	Nil	Nil	?	2·39	?
		Jhalda	...	...	...	...	0·30	1·50	...	2	1·80	1·80	?	2·69	?
		Chas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	0·29	?

Explanation.—Indicates that rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 11*th June* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE WEEK ENDING 7TH JUNE, 1889.

THE chief features of the meteorology of the week have been the rather large differences of pressure over the province; the high temperature and humidity, the latter in all districts, the former in all except North Bengal and Assam, where it was generally in defect; and the copious rainfall in Assam, East Bengal and parts of North Bengal. The weather during the latter half of the week has been of the character of that which usually precedes the commencement of the rains. Pressure has generally been high. At the beginning of the week there was defect in Behar, but elsewhere excess, large at some stations of South-West Bengal and Orissa. In consequence of the increased difference of pressure the wind force increased, and very strong winds were blowing at the head of the Bay. Weather continued fine in all districts except Assam and North Bengal for the first two days of the week, after which conditions became somewhat unsettled, especially on Tuesday, when local storms became common in South and East Bengal. Temperature during these days was high everywhere except in Assam, where there was a defect of from 3° to 5,° and in North Bengal, where it differred very little from the normal The very large excess which existed in Behar remained unchanged for a day or two, but afterwards began to diminish, and from about 10° at the beginning of the week was reduced to 6° on Tuesday. From Monday till Wednesday winds showed a slight cyclonic circulation in the western districts, but as the difference of pressure between the southern districts and Behar had by that time begun to lessen, the winds fell off and continued diminishing till the end of the week. During the last two days pressure continued high, but was fairly uniform. Large differences existed in temperature, which varied from 5° below the normal in the eastern districts to 5° above in part of Behar. Humidity continued high except at some of the western stations, and cloud proportion was generally rather high; rain was fairly general in Bengal and Assam, especially in East Bengal. Heavy rain fell in Assam during the greater part of the week, falling off towards the end, when temperature began to rise, and by the end of the week it had become very nearly normal.

Pressure—Has been high in all districts during the greater part of the week On Monday after a rather heavy fall there was defect everywhere, and for the first four days of the week pressure was below the normal in Behar. With these exceptions there has been excess. Considerable difference appeared between the pressures in the southern districts and Behar, but this diminished gradually, and by the middle of the week greater uniformity existed. The changes during the week have not been large, and except on Monday and Friday, pressure rose by small amounts. With the exception of the fall on Monday, no large general change took place The average fall on Tuesday amounted to about ·07," on other days the average variation did not amount to a twentieth of an inch. Pressure in Assam has been in excess all through the week, exceeding a tenth of an inch on Thursday. Average pressure shows excess everywhere except at a few stations in Behar, and is largest at the Assam and East Bengal stations, the average in Assam being about ·06", and in East Bengal about 05". Elsewhere the excess lies between ·02" and ·05". In South Behar average pressure is very nearly normal.

Temperature.—At all stations, except those in Assam and a few in North Bengal, temperature has been in excess; at some stations of Behar the excess amounted to more than 8,° and at some in South-West Bengal also has been large, in one case exceeding 6°. Temperature was very high in the early part of the week, and though it continued very high at some stations in Behar and South-West Bengal, it was falling by small amounts, especially in North and East Bengal. By the middle of the week there was a rather large defect in North Bengal, and the excess at other stations had considerably diminished. The fall became more rapid towards the end of the week in East Bengal, and on Thursday there was a defect of about 5° at the eastern stations, and excess of about the same amount at the others. Many stations continued to record maximum temperatures of over 100° throughout the week, and in the early part of the week several were over 110.° The highest was at 115·5° at Dehree on Saturday and Sunday. In Assam temperature was generally very low, but it was increasing towards the end of the week. Except in Assam and North Bengal, the mean temperature for the week has been in excess in all districts. The largest excess has been 8° in Chutia Nagpur; in South-West Bengal and South Behar it has been a little over 4°; in North Behar 3·6°; in the other districts about 2.° In North Bengal the mean temperature is normal, and there has been a defect of over 3° in Assam.

Rainfall.—The largest rainfall has been in Assam, East and North Bengal. In other districts the amount has been considerably below the normal, especially South-West Bengal, where about half the normal amount has fallen. Heavy rain fell in Assam during the greater part of the week, diminishing towards the end. At first is was confined to Assam, but a few showers fell in North and East Bengal on Sunday, and on Monday heavy rain commenced to fall in North Bengal. On Tuesday and Wednesday moderate rain continued in the eastern districts, and a series of local storms passed over South Bengal. Heavy rain was confined to East Bengal on Thursday, and on the last day of the week rain continued in the eastern districts, but was heavy at only one or two stations. In North and East Bengal about 4 inches have fallen. In all other districts except South-West Bengal, where a little over an inch has fallen, there has been less than half an inch. The largest defect was in South-West Bengal and Orissa.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 7th of June 1889:—

Meteorological Divisions.	Temperature: Highest observed during week.	Lowest observed during week.	Averages for week: Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Rainfall: Of week: Average.	Normal average.	Variation.	Rainy days: Average number in week.	Normal average number in week.	Variation.	Since 1st of month: Average.	Normal average.	Since 15th May 1889: Average.	Normal average.
Orissa	106·4	76·3	95·5	82·7	89·1	+2·0	0·46	1·13	−0·67	0·7	2·0	−1·3	0·46	1·13	3·11	3·30
South-West Bengal ...	111·1	72·7	100·9	81·6	91·3	+4·1	1·02	2·03	−1·01	1·3	2·7	−1·4	1·02	2·03	3·74	4·77
East Bengal	97·5	69·8	92·2	77·1	84·7	+2·3	3·70	3·81	−0·11	3·6	3·8	−0·2	3·70	3·81	7·59	8·21
North Bengal	105·0	68·8	92·6	75·5	84·0	0	4·09	3·22	+0·87	4·2	3·1	+1·1	4·00	3·22	6·76	8·77
North Behar	112·2	78·8	100·5	79·9	90·2	+3·6	0·48	0·76	−0·28	1·3	1·3	0	0·45	0·76	1·84	2·59
South Behar	115·5	73·2	105·6	82·0	93·8	+4·3	0·24	0·55	−0·31	0·7	1·2	−0·5	0·24	0·55	1·62	2·15
Chutia Nagpur	110·0*	74·4*	107·1*	81·4*	94·3*	+8·0*	0·24	0·77	−0·53	1·1	1·7	−0·6	0·24	0·77	1·45	2·52

* Chyebassa not included.

Meteorological Office, Bengal;
The 11th June 1889.

A. Pedler,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations, taken at the Meteorological Office, Chowringhee, from 2nd to 8th June 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature: Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry: Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
1889.		Inches	°	°	°	°	°	°	Inches.	°	%	Inches.
June ...	2nd ..	29·682	89·8	96·8	14·0	82·8	92·6	82·0	·951	77·7	62	......
,, .	3rd ..	·596	90·3	97·0	13·4	83·6	93·6	82·5	·962	78·1	61	.. ..
,, ...	4th ...	·603	84·7	96·0	22·6	73·4	92·2	84·5	1·082	81·7	72	0·32
,, ...	5th ...	·676	90·9	98·0	14·2	83·8	93·4	83·5	1·014	79·7	64	. ..
,, ...	6th ...	·686	91·6	99·6	16·0	83·6	90·1	83·5	1·061	81·1	75	......
,, ...	7th ...	·639	91·0	100·2	18·4	81·8	94·0	84·5	1·057	80·9	66	. ..
,, ...	8th ...	·618	91·7	99·8	16·2	83·6	93·6	84·5	1·063	81·1	68	.....

				Inches.
The mean 10 A.M. pressure of the seven days	...	...	...	29·643
				°
The mean temperature of the seven days	...	...	...	90·0
The extreme variation of temperature	...	..	...	26·8
The maximum temperature	...	...	...	100·2
				%
The mean 10 A.M. relative humidity of the seven days	...		...	67
				Inches.
The total fall of rain from 2nd to 8th June 1889	...		...	0·32

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, India;
The 10th June 1889.

A. Pedler,
For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th June 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	2nd	149·3	10·2	29·604	89·3	95·0	12·8	82·2	82·4	1·017	79·7	74	SSW, SW and S ...	254	Nil	Partially cloudy.
,,	3rd	150·0	8·9	·554	89·9	95·8	12·7	83·1	82·8	1·026	80·0	74	SSW, SW and variable.	296	,,	Chifly cloudy, o, lr.
,,	4th	151·8	9·1	·562	87 0	94·5	22·0	72·5	80·5	0·964	78·1	75	SSW, S and variable	[illegible]	0 40	Chiefly cloudy, o, g, p, t, <, w.
,,	5th	149·5	9·5	·615	90·1	95·8	12·7	83 1	82·8	1·027	80·0	73	SSW, SW and S .	208	Nil .	Partially cloudy
,,	6th	152·5	6 5	·623	89·5	97·5	14·6	82·9	82·2	1·006	79 4	73	SSW and S .	141	,,	Chiefly cloudy.
,,	7th	154 7	9 8	·577	90 2	98·4	17·0	81 4	82 3	0·998	79·2	71	S by E, SSW and S	121	,,	Partially cloudy
,,	8th	155·8	6 6	·553	88·2	98·4	16 0	82·4	81·0	·964	78·1	74	SSW, SSE and variable.	77	0 88	Chiefly cloudy o, g, p, K.

	Inches.
The mean pressure of the seven days	29·584
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·581
	Hours.
The total number of hours of bright sunshine	60·6
The maximum possible number of hours of sunshine	93·8
	°
The mean temperature of the seven days	89·2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	86 3
The extreme variation of temperature	25·9
The maximum temperature	98 4
	Miles.
The highest velocity of the wind in one hour	22
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	14
	%
The mean relative humidity	73
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	77
	Inches
The total fall of rain from 2nd to 8th June 1889	1·28
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·79
The total fall from 1st January to 8th June 1889	9 66
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	11·55

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, < lighting, w strong wind, lr. lighting reflection, K thunderstorm.

A. PEDLER,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 10th June 1889.

MEMORANDUM.

THE birth and death returns of the principal Municipalities in Bengal exhibit the following results for the week ending 25th May 1889 :—

1. Births and deaths were registered in these Municipalities in the proportions per 1,000 of population of 16·6 and 20·9, respectively, as opposed to 17· and 20· per 1,000 during the preceding week ending 18th May

2. These events were recorded in the highest proportions in the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Durbhanga	44·8	Puri	50·4
Utterpara	37·7	Santipore	38·5
Hughli	30·9	Serampore	37 3
Serampore	29·4	Durbhanga	37·0
		Gya	36·9

3. The diseases specified in the table appended to this memorandum furnish the death-rates exhibited below, in contrast with the results of the preceding week :—

	Ratio per *mille* during the weeks ending— 25th May 1889.	18th May 1889.
Cholera	2·7	2·9
Small-pox	·6	·4
Fever	8·5	7·1
Bowel-complaints	2·7	2·4
Injury	·8	·6
Other causes	5·6	6·6

indicating chiefly that there was an increase of mortality from fever with a decrease in that from the maladies coming under the head of " Other causes "

4. Of the diseases above indicated, small-pox was noticeably severe in Patna Town, attended with 6 deaths (mortality 1·9 per 1,000 of population), and bowel-complaints prevalent in Puri Municipality (mortality 10·5 per 1,000 of population), while cholera and " Other causes " gave rise to the highest mortality in the following Municipalities :—

Cholera.	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Puri	18·9	Serampore	13·7
Comillah	11·6	Bhagulpore	11 8
Serampore	7·9	Gya	11·6
Santipore	7·0	Bali	10·5
Patna	4·5	Puri	10 5
Howrah	2 9	Durbhanga	10·2
Gya	2 7		

5. Under the heads of *Sex*, *Class* and *Age*, the mortality stood as follows : —

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23 3	Christians	46·0	Under 1 year ...	172·9
Females	18·4	Hindus	21·1	1 and under 5 years ...	41·1
Ratio of male deaths to every 100 female deaths	136	Mahomedans ...	19·9	5 " 10 " ...	11·2
		Other classes ...	76 8	10 " 15 " ...	11·3
				15 " 20 " ...	15 3
				20 " 30 " ...	9 8
				30 " 40 " ...	7 9
				40 " 50 " ...	18·1
				50 " 60 " ...	22·6
				60 years and upwards ...	45·5

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 10*th June* 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 25th May 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.				Number of—			Ratio per 1,000 of Population per Annum.				Deaths from—							Ratio per 1,000 of Population per Annum.								Deaths.		Ratio per 1,000 of Population per Annum.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan ...	18,063	16,117	34,080	8	6	14	12·2	9·2	21·4	133	..	.	3		..	3	6		.	4·6	...	...	4·6	9·2	19·8	2	4	5·8	13·0	50
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	..	4	6·2	..	6·2	No female births	...	...	3	3	...	3	9	...	...	4·6	4·6	.	4·6	13·9	10·8	3	6	9·2	18·8	50
Hughli ...	Hughli and Chinsurah	19,179	19,539	38,718	12	11	23	16·1	14·8	30·9	109	1	1	3	2	.	3	10	1·3	1·3	4·0	2·7	...	4·0	13·4	13·4	4	6	10·8	16·0	66
Serampore ...	Serampore ...	13,559	12,937	26,496	10	5	15	19·6	9·8	29·4	200	4	...	3	5	...	7	19	7·9	...	5·9	9·8	...	13·7	37·3	39·3	13	6	49·9	24·1	216
	Utterpara ...	3,046	2,464	5,510	2	2	4	18·8	18·8	37·7	100	1	...	...	...	..	1	2	9·4	...	..	.	...	9·4	18·8	9·4	2	...	34·1	...	No female deaths.
Howrah ...	Howrah ...	53,153	37,660	90,813	21	20	41	12·0	11·5	23·5	105	5	1	11	5	...	7	29	2·9	·5	6·3	2·9	...	4·0	16·6	18·9	20	9	19·6	12·4	222
	Bali ...	7,836	6,979	14,815	3	...	3	10·5	...	10·5	No female births.	...	...	3	..	...	3	6	.	...	10·5	...	...	10·5	21·1	7·6	3	3	19·9	22·4	160
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	3	1	4	5·7	1·9	7·6	300	2	...	5	...	2	2	11	3·8	...	9·4	...	3·8	3·8	20·8	22·7	7	4	27·4	14·6	175
	Ranaghat ...	4,028	4,655	8,685	..	1	1	...	6·0	6·0	No male births.	...	...	1	.	..	..	1	...	...	6·0	..	...	..	6·0	6·0	..	1	...	11·2	No male deaths.
	Santipore ...	13,708	15,979	29,687	2	6	8	3·5	10·5	14·0	33	4	...	10	3	2	3	22	7·0	...	17·5	5·2	3·5	5·2	38·5	12·3	17	5	64·5	16·3	340
Jessore ...	Jessore ...	4,830	3,665	8,495	...	.	.	..	...	.	...	..	...	1	...	...	...	1	.	...	6·1	...		..	6·1	30·6	...	1	..	14·2	No male deaths.
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	7	3	10	18·4	7·9	26·3	233	.	...	3		.	2	5	...	...	7·9		..	5·2	13·1	18·4	4	1	19·3	5·8	400
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	.	3	3	...	19·6	19·6	No male births	..	.	...		...	..	.	...	...	...	..	...	...		.. ...	...	...	...	...	......
Dacca ...	Dacca ...	42,782	37,379	80,161	8	8	16	5·2	5·2	10·4	100	3	...	6	2	...	10	21	1·9		3·9	1·3	.	6·5	13·6	13·0	8	13	9·7	18·1	61
	Naraingunj ...	7,605	4,956	12,561	3	1	4	12·4	4·1	16·6	300	...	..	1		..	...	1		..	4·1	...	...		4·1	8·3	.	1	...	10·5	No male deaths.
Chittagong ..	Chittagong ...	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	..	...	6	4	1	...	11	...	...	14·1	9·4	2·3	...	25·8	21·1	8	3	31·2	17·7	266
Tipperah ...	Comillah ...	8,153	5,353	13,506	.	3	3	.	11·6	11·6	No male births	3	...	1	.	1	1	6	11·6	..	3·8	...	3·8	3·8	23·1	11·6	3	3	19·1	29·1	100
Patna ...	Patna City ...	78,762	81,475	160,237	10	7	17	3·2	2·3	5·5	112	14	6	19	8	2	7	56	4·5	1·9	6·2	2·6	·6	2·3	18·2	17·8	27	29	17·8	18·5	93
Gya ...	Gya ...	38,290	37,831	76,121	17	10	27	11·6	6·8	18·4	170	4	..	29	2	2	17	54	2·7	...	19·8	1·4	1·4	11·6	36·9	33·5	30	24	40·7	33·0	125
Shahabad ...	Arrah ...	20,960	22,505	43,465	3	3	6	3·6	3·6	7·2	100	...	..	5	1	1	1	8	.	...	6·0	1·2	1·2	1·2	9·6	6·0	3	5	7·4	11·6	60
Mozufferpore ..	Mozufferpore ...	23,084	19,658	42,742	11	11	22	13·4	13·4	26·8	100	..	2	6	6	...	2	16	.	2·4	7·3	7·3	.	2·4	19·5	18·2	9	7	20·3	19·5	128
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	28	29	57	22·0	22·5	44·8	96	3	2	24	5	..	13	47	2·4	1·6	18·9	3·9	...	10·2	37·0	22·0	25	22	38·5	35·4	113
Sarun ...	Chupra ...	26,044	27,205	53,249	1	3	4	1·0	2·9	3·9	33		..	8	...	1	5	14	...	.	7·8		1·0	4·9	13·7	18·6	8	6	16·0	11·5	133
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	12	9	21	10·9	9·1	19·0	133	3	...	6	1		13	23	2·7	...	5·4	·9	...	11·8	20·8	32·6	16	7	28·1	13·1	228
Monghyr ...	Monghyr ...	28,154	29,366	57,520	10	13	23	9·0	11·8	20·8	76	.	...	12	4	2	6	24	..	..	10·8	3·6	1·8	6·4	21·7	23·5	16	8	29·6	14·2	200
Purneah ...	Purneah ...	8,463	6,553	15,016	1	1	2	3·4	3·4	6·9	100	...	..	4	..	...	1	5		..	13·9	.	...	3·4	17·3	6·9	5	..	30·7	..	No female deaths.
Puri ...	Puri ...	13,247	11,537	24,784	3	3	6	6·3	6·3	12·6	100	9	1	2	5	2	5	24	38·9	2·1	4·2	10·5	4·2	10·5	51·4	52·5	16	8	62·8	36·1	200
	Total	[illegible]	[illegible]	[illegible]	181	161	342	8·5	7·5	16·6	112	56	13	175	56	16	115	431	2·7	·6	8·5	2·7	·8	5·6	20·9	20·0	249	192	23·3	18·4	130

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

		13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	Deaths among—					Ratio per 1,000 of Population per Annum.					Deaths.										Ratio per 1,000 of Population per Annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years	60 years and upwards.
Burdwan	Burdwan	...	3	3	...	...	...	6·6	15·2		...	3	...	...			2	...	1			236·4	...	...	...	...	13·1	...	11·8	...	...
Midnapore	Midnapore	...	7	2	...	...	...	14·0	14·4		...	...	1	...	1	...	1	1	1	...	4	...	22·1	...	17·1		7·1	9·4	14·0	...	143·7
Hughli	Hughli and Chinsurah ...	...	6	4		...	...	9·9	30·5	...	...	3	2	...	1	...	2	2	...	...	...	165·4	39·0	...	17·2	...	13·6	14·8	...	...	...
Serampore	Serampore		17	2	...	...	...	35·0	110·9	...	...	6		2		2	3		1	1	4	439·4	...	41·4	...	47·6	29·0	...	15·4	27·2	149·5
	Utterpara	...	2	...	...	...		19·5		...	...	...	...		1	...	1	...		...	...	...		...	103·6	...	45·2	...	...	...	...
Howrah	Howrah	1	20	7	...	1	27·5	15·3	17·7	...	215·8	3	3	1	1	2	1	5	9	1	3	75·6	23·2	8·3	7·9	14·2	2·3	13·5	39·8	9·5	41·6
	Bali	...	4	2	...	...	...	15·5	79·3	...	...	4	1	...	...	...		...	...	...	1	574·6	52·1	...	...	...	...	...	...	...	71·0
Nuddea ...	Kishnaghur	...	8	3	...	...		22·3	18·8	...	...	1	1	2	...		...	1	...	4	2	104·8	21·1	30·3	...	...	...	12·1	...	98·7	60·2
	Ranaghat	...	1	...	...	...	...	7·1		...	...	...	...	1	...		...		...	...	...	...	...	46·6	...	...	...	...	...	...	...
	Santipore	...	16	6	...	...	...	40·2	34·9	...	...	2	2	2	4	1	1	3	5	1	1	123·1	35·9	27·5	71·7	23·4	10·6	36·0	74·0	22·6	26·5
Jessore	Jessore	...	1	...	...	...	...	11·5		...	...		...	1	...	...			...	...	...	...	...	65·6	...	...	...	...	...	...	...
Rajshahye	Rampore Beauleah ...	...	2	3	...	...	...	10·5	15·9	...	...	2	...	...	1	...	...		2	...		256·2	...	...	25·9	...		...	42·4	...	...
Darjiling	Darjiling	...			...	...		...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	Dacca		10	11	...	...	...	12·9	14·5	...		3	3	...	1	1	2	4	2	2	3	82·2	21·2	...	6·5	7·1	6·8	17·8	13·4	22·0	28·0
	Narainganj		1		...	...	...	8·2	...	...		...		...	...	...	...	...	1	...		...	...	...	...	...	...	...	37·3	...	...
Chittagong	Chittagong	...	1	10	...	...	...	9·0	34·0	...		4	...	...			...	1		3	3	369·4	...	...	...	...	...	15·6	...	143·8	196·0
Tipperah	Comillah			6	...	...	...	...	41·2	...		1	1	1	...	2	...	...		...	1	175·1	39·8	31·9	...	82·7	...	...	...	...	76·7
Patna	Patna City	...	44	12	...	...		19·2	15·3	...	...	8	17	3	4	4	3	1	2	5	9	96·5	60·6	9·3	14·4	18·6	5·4	2·2	5·5	18·4	33·9
Gya	Gya		42	12	...	...		36·4	38·8	...	...	10	11	2	...	3	8	2	7	4	7	290·5	90·0	14·9	...	29·8	28·3	8·2	37·2	31·6	79·7
Shahabad	Arrah	...	7	1		...	...	11·7	4·2	...	...	1	1	...	...		1	...		...	5	40·4	11·7	...	...	...	6·6	...	...	...	90·2
Mozufferpore	Mozufferpore	6	6	4	...	...	1,3[illegible]1	10·4	16·7	...		4	4	1	1	1	2		1	1	1	217·8	51·5	11·6	13·1	17·2	12·1	...	10·4	16·0	21·4
Durbhanga	Durbhanga	...	36	11	...	...		38·7	32·6	...	...	10	14	5	1	1	2	2	1	4	7	334·0	95·7	33·2	9·4	13·9	7·8	9·3	7·0	47·4	114·0
Sarun	Chupra	...	10	4	...	...	...	12·6	17·3	...	...	6	3	...	...	...	1		2		2	216·1	29·4	...	...	...	5·5	...	16·6	...	29·9
Bhagulpore	Bhagulpore	...	20	3	...	...	...	26·2	9·1	...	...	6	3		1	6	1	...	1	5	2	261·3	28·8	...	8·3	74·6	4·8	...	8·3	36·6	28·8
Monghyr	Monghyr	...	21	3	...	...	...	24·4	12·4	...	...	6	3	1	2	1	3	1	3	2	2	210·1	25·1	7·4	18·1	13·8	15·1	5·8	24·5	26·2	29·0
Purneah	Purneah	...	1	4	...	...	...	5·7	36·7	...	...	...	1		1		1	...	1	1	...	...	43·0	...	43·5	...	15·8	...	28·0	55·5	...
Puri	Puri	...	24	...	...	...	...	50·9	...		...	2	3	2	1	...	5	4	4	2	1	343·2	86·8	46·4	27·7	...	49·2	51·3	62·6	46·6	28·8
	TOTAL ...	7	310	113	...	1	46·0	21·1	19·9	...	76·8	85	74	24	21	24	40	27	41	34	58	172·9	41·1	11·2	11·3	15·3	9·8	7·9	18·1	22·6	45·5

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 10th June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of April 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
572	1. Grain ...	227	7,263	7,490	4,95,146	7,490	4,95,146	* Only 1 maund passed up on Matabhanga river.
......	2. Cotton ...	......	......	......	......	......	......	
85	3. Oilseeds ...	16	849	865	79,661	865	79,661	
204	4. Salt ...	680	......	680	61,320	680	61,320	
1	5. Piece-goods* ...	......	......	......	40	......	40	
15	6. Metal ..	64	23	87	69,000	87	69,000	
11	7. Building materials	45	56	101	1,656	101	1,656	
396	8. Miscellaneous ...	1,054	2,019	3,073	5,64,107	3,073	5,64,107	
19	9. Fuel ...	76	64	140	1,645	140	1,645	
38 rafts	10. Timber ...	322 c. ft.	12,553 c. ft.	12,875 c. ft.	38,173	12,875 c. ft.	38,173	
2 „	11. Bamboos ...	......	2,812	2,812	281	2,812	281	
1,303 & 40 rafts.	12. Total ...	2,162 & 322 c. ft.	10,274 & 15,365 c. ft.	12,436 & 15,687 c. ft.	13,11,029	12,436 & 15,687 c. ft	13,11,029	
1,214 & 42 rafts.	13. Total of same month last year	2,828 & 667 c. ft.	8,299 & 2,613 c. ft.	11,127 & 3,280 c. ft.	9,96,419	11,127 & 3,280 c. ft.	9,96,419	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	483	820	1,303
14a. Ditto empty boats, steamers. &c. No.	609	111	720
15. Total number of boats plying passenger No.	358	390	748
15a. Ditto empty boats „	3	3	6
16. Total registered tonnage, cargo Tons	13,324	20,509	33,833
17. Total registered tonnage, passenger Tons	132	102	234
18. Ton-mileage	......	......	......
19. Estimated value of cargo Rs.	3,37,703	9,34,872	12,72,575
20. Number of passengers No.	507	790	1,297
21. Rafts, bamboos C. ft.	......	2,812	2,812
22. Do., bullahs „	322	12,553	12,875
23. Estimated value of rafts Rs.	513	37,941	38,454
24. Tollage on boats „	2,849-3-6	4,078-15-6	6,928-3-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	2-7-0	238-6-0	240-13-0
27. Total tollage on boats per ton-mile* ...	......	......	......
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	1-8-6

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,169	0	0
Total tollage of same month last year ...	5,785	8	8

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	529	0	6
2. Tollage per month ...	7,169	0	0
3. Total ...	7,698	0	6
4. Amount paid into Treasury during the month ...	7,470	11	6
5. Balance due at the end of the month ...	227	5	0

* Boats in these rivers do not pay per mile.

Abstract for the month of April 1889 *as compared with the corresponding month of the previous year.*

	1889-90. During the month. Rs. A. P.	1889-90. To end of the month. Rs. A. P.	1888-89. During the month. Rs. A. P.	1888-89. To end of the month. Rs. A. P.
Tollage	7,169 0 0	7,169 0 0	5,785 8 8	5,785 8 8

CALCUTTA,
The 10*th June* 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL, OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of April 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
273	1. Grain ...	2,522	224	2,746	1,23,568	2,746	1,23,568	
......	2. Cotton ...	......	......	......	......	......	......	
1	3. Oilseeds ...	......	1	1	60	1	60	
28	4. Salt ...	...	295	295	27,900	295	27,900	
9	5. Piece-goods ...	......	22	22	20,000	22	20,000	
2	6. Metal ...	......	8	8	2,200	8	2,200	
10	7. Building materials	......	75	75	764	17	80	
717	8. Miscellaneous ...	154	233	387	41,648	384	41,250	
18	9. Fuel ...	18	176	194	2,198	158	1,698	
2 rafts	10. Timber ...	174 c. ft.	......	174 c. ft.	72	174 c. ft.	72	
15 „	11. Bamboos ...	600 „	1,625	2,225 „	172	2,225 „	172	
1,058 & 17 rafts.	12. Total ...	2,694 & 774 c. ft	1,034 & 1,625 c. ft.	3,728 & 2,399 c. ft.	2,18,582	3,631 & 2,399 c ft	2,17,000	
869 & 26 rafts	13. Total of same month last year	3,666 & 1,925 c. ft.	1,289 & 1,388 c. ft.	4,955 & 3,313 c. ft.	2,12,235	4,955 & 3,313 c.ft.	2,12,235	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	499	559	1,058
15. Total number of boats plying passenger No.	47	56	103
16. Total registered tonnage, cargo Tons	5,665	4,210	9,875
17. Total registered tonnage, passenger Tons	561	615	1,176
18. Ton-mileage ...	1,86,024	1,31,069	3,17,093
19. Estimated value of cargo Rs.	1,21,484	96,854	2,18,338
20. Number of passengers No.	1,229	2,250	3,479
21. Rafts, bamboos C. ft.	600	1,625	2,225
22. Do., bullahs „	174	......	174
23. Estimated value of rafts Rs.	105	139	244
24. Tollage on boats „	3,261-10-3	2,306-14-0	5,568-8-3
25. Compounded tollage on boats Rs.	1-4-0	1-8-0	2-12-0
26. Tollage on rafts „	6-10-0	8-15-0	15-9-0
27. Total tollage on boats per ton-mile Rs.	......	...	0-0-3·3
28. Ditto on rafts per 100 cubic feet Rs.	......	......	0-10-4

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	5,586	13	3
Total tollage of same month last year ...	4,652	13	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	4,965	9	9
2. Tollage per month ...	5,586	13	3
3. Total ...	10,552	7	0
4. Amount paid into Treasury during the month ...	6,144	13	3
5. Balance due at the end of the month ...	4,407	9	9

Abstract for the month of April 1889 as compared with the corresponding month of the previous year.

	1889-90. During the month.	1889-90. To end of the month.	1888-89. During the month.	1888-89. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	5,586 13 3	5,586 13 3	4,652 13 0	4,652 13 0

CALCUTTA,
The 10th June 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of April 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
400	1. Grain ...	7,009	......	7,009	7,69,262	7,009	7,69,262	* For detail, see next page.
1	2. Cotton ...	2	......	2	950	2	950	
135	3. Oilseeds ...	1,578	......	1,578	1,99,087	1,578	1,99,087	
167	4. Salt ...	548	2,151	2,699	2,64,204	2,699	2,64,204	
......	5. Piece-goods ...	......	......	......				
13	6. Metal ...	66	44	110	29,027	110	29,027	
71	7. Building materials	2,347	105	2,452	44,481	2,452	41,481	
1,173	8. Miscellaneous* ...	6,134	631	6,765	8,47,330	6,765	8,47,330	
447	9. Fuel ...	8,439	434	8,873	68,772	8,873	68,772	
......	10. Timber ...	......	......	......	......	......		
8 rafts.	11. Bamboos ...	3,300 c. ft.		3,300 c. ft.	412	3,300 c. ft.	412	
2,407 & 8 rafts.	12. Total ...	26,123 & 3,300 c. ft.	3,365	29,488 & 3,300 c. ft.	22,23,525	29,488 & 3,300 c.ft.	22,23,525	
2,618	13. Total of same month last year.	30,950	3,537	34,487	23,42,252	31,487	23,42,252	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	2,194	213	2,407
14a. Ditto empty „	1,296	314	1,610
15. Total number of boats plying passenger No.	153	3	156
16. Total registered tonnage, cargo Tons	83,827	9,617	93,414
17. Total registered tonnage, passenger Tons	411	14	425
18. Ton-mileage ...	685,915	96,170	782,085
19. Estimated value of cargo Rs.	19,17,614	3,05,499	22,23,113
20. Number of passengers No.	927	14	941
21. Rafts, bamboos C. ft.	3,300		3,300
22. Do., bullahs „	......	......	......
23. Estimated value of rafts Rs.	412	......	412
24. Tollage on boats „	16,573-10-6	2,359-13-0	18,933-7-6
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	5-1-0	......	5-1-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-4·64
28. Ditto on rafts per 100 cubic feet Rs.	......	......	0-2-5

	Rs.	A.	P.
Total tollage of month—21+25+26 ...	18,938	8	6
Total tollage of same month last year ..	22,199	11	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	2,167	10	0
2. Tollage per month ...	18,938	8	6
3. Total ...	21,106	2	6
4. Amount paid into Treasury during the month ...	20,733	8	6
5. Balance due at the end of the month ...	372	10	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
40	(*a*) Jute ...	702	......	702	98,250	702	98,250	
56	(*b*) Jaggery ...	485	7	492	69,000	492	69,000	
15	(*c*) Sugar ...	82	......	82	20,700	82	20,700	
3	(*d*) Tobacco ...	......	8	8	1,500	8	1,500	
233	(*e*) Fish ...	80	......	80	22,569	80	22,569	
3	(*f*) Hides ...	1	......	1	200	1	200	
78	(*g*) Poultry ...	15	......	15	12,628	15	12,628	
94	(*h*) Hay and straw ...	1,244	......	1,244	30,478	1,244	30,478	
30	(*j*) Oil ...	......	459	459	64,250	459	64,250	
47	(*k*) Earthenware ...	83	2	85	1,193	85	1,193	
574	(*m*) Other miscellaneous ...	3,442	155	3,597	5,26,562	3,597	5,26,562	
1,173	Total Miscellaneous ...	6,134	631	6,765	8,47,330	6,765	8,47,330	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of April 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rs.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
820	1. Grain ...	3,746	22	3,768	5,30,394	3,768	5,30,394	* For detail, see next page.
6	2. Cotton ...	23	......	23	12,350	23	12,350	
18	3. Oilseeds ...	203	......	203	24,375	203	24,375	
62	4. Salt ...	564	267	831	81,462	831	81,462	
......	5. Piece-goods ...	......	......	......	......	......	......	
1	6. Metal ...	11	......	11	1,050	11	1,050	
324	7. Building materials	2,114	......	2,114	10,161	2,114	10,161	
759	8. Miscellaneous* ...	3,109	110	3,219	3,34,477	3,219	3,34,477	
118	9. Fuel ...	2,269	......	2,269	18,016	2,269	18,016	
1 raft.	10. Timber ...	96 c. ft.	......	96 c. ft.	240	96 c ft.	240	
7 rafts.	11. Bamboos ...	315 c. ft.	......	315 c. ft.	39	315 c ft.	39	
2,108 & 8 rafts.	12. Total ...	12,039 & 411 c. ft.	399	12,438 & 411 c. ft.	10,12,564	12,438 & 411 c. ft.	10,12,564	
2,454 & 14 rafts.	13. Total of same month last year ...	15,935 & 1,250 c. ft.	348	16,283 & 1,250 c. ft.	7,60,907	16,283 & 1,250 c. ft.	7,60,907	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	2,057	51	2,108
14a. Ditto empty ... "	684	81	765
15. Total number of boats plying passenger ... No.	223	5	228
16. Total registered tonnage, cargo ... Tons	47,020	1,465	48,485
17. Total registered tonnage, passenger ... Tons	798	6	804
18. Ton-mileage	3,97,592	23,440	4,21,032
19. Estimated value of cargo Rs.	9,67,984	44,301	10,12,285
20. Number of passengers No.	1,267	8	1,275
21. Rafts, bamboos C. ft.	315	......	315
22. Do., bullahs "	96	......	96
23. Estimated value of rafts Rs.	279	......	279
24. Tollage on boats "	7,174-8-0	363-3-6	7,537-11-6
25. Compounded tollage on boats ... Rs.	......	......	......
26. Tollage on rafts "	2-8-0	......	2-8-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·43
28. Ditto on rafts per 100 cubic feet ... Rs.	......	......	0-9-8

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,540	3	6
Total tollage of same month last year ...	8,695	12	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	790	8	6
2. Tollage per month ...	7,540	3	6
3. Total	8,330	12	0
4. Amount paid into Treasury during the month ...	8,113	9	0
5. Balance due at the end of the month ...	217	3	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	(a) Jute ...	81	......	81	11,250	81	11,250	
74	(b) Jaggery ...	457	......	457	44,744	457	44,744	
1	(c) Sugar ...	7	......	7	1,800	7	1,800	
19	(d) Tobacco ...	161	3	164	37,600	164	37,600	
58	(e) Fish ...	11	......	11	3,167	11	3,164	
......	(f) Hides ...	....	......	......	......	......	......	
......	(g) Poultry ...	......	......	......	......	......	......	
149	(h) Hay and straw...	299	......	299	7,322	299	7,322	
39	(j) Oil ...	342	......	342	47,900	342	47,900	
156	(k) Earthenware ...	348	1	349	4,885	349	4,885	
256	(m) Miscellaneous ...	1,403	106	1,509	1,75,809	1,509	1,75,809	
759	Total Miscellaneous...	3,109	110	3,219	3,34,477	3,219	3,34,477	

ABSTRACT FOR THE MONTH OF APRIL 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1889-90.						Traffic, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	18,938	8	6	18,938	8	6	22,199	11	9	22,199	11	9
Tolly's Nullah	7,540	3	6	7,540	3	6	8,695	12	9	8,695	12	9
Total ...	26,478	12	0	26,478	12	0	30,895	8	6	30,895	8	6

CALCUTTA,
The 10*th June* 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 8*th June* 1889, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 8th June 1889.			Week ending Saturday, the 9th June 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	168	45,630	853	363	1,01,400	1,771
Jute	7	3,400	69	7	6,550	97
Firewood	78	34,950	540	130	58,425	866
Other articles	573	1,59,170	2,505	724	1,86,170	2,782
Total ...	826	2,43,150	3,967	1,224	3,52,545	5,516

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 27th April 1889, as compared with the same period of 1888.

Staples.		1889.		1888.		Increase.		Decrease.	
		Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
		Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living	Horses, ponies, and mules ...	No. 62	1,750	No. 47	1,000	No. 15	750	No.	......
	Cattle ...	" 55	697	" 141	987	"	......	" 86	290
	Sheep and goats ...	" 3,201	2,479	" 2,536	1,947	" 665	532	"	......
	Other kinds ...	" ...	......	" ...	...	" ...	......	"	......
Borax ...		343	201	2,004	1,631	......	......	1,661	1,430
Canes and rattans ...		......	......	......	......	......	......	......	....
Caoutchouc (Indian-rubber) ...		2	1	3	2	......	......	1	1
Chinese and Japanese ware ...		8	9	15	18	......	......	7	9
Coal and coke, up ...		7,27,888	2,21,093	7,98,258	2,49,403	...		70,370	27,310
Ditto, down ...		25,60,256	3,43,595	19,80,896	2,75,375	5,79,360	68,220	......	......
Cotton, raw ...		82,862	52,758	47,548	37,892	35,314	14,866	......	......
Cotton, manufactured.	Twist and yarn (European) ..	7,130	9,608	6,516	8,460	614	1,148	......	......
	Ditto (Indian) ...	10,341	6,544	9,447	6,349	894	195	......	......
	Piece-goods (European) ..	1,99,484	2,36,407	2,22,494	2,49,082	......	......	23,010	12,585
	Ditto (Indian) ...	17,372	11,590	20,362	13,978	......	......	2,990	2,388
Drugs and Medicines.	Asafoetida ...	195	188	265	212	......	......	70	24
	Other sorts, not intoxicating	1,066	1,102	1,646	1,297	.	......	580	195
	Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and churas, &c.)	2,524	852	3,308	1,499	......	......	784	647
Dyeing Materials.	Indigo ...	420	407	466	370	......	37	37	....
	Madder or manjit ...	242	193	225	196	17	......	......	3
	Safflower ...	3,461	2,502	5,432	2,789	......	......	1,971	287
	Turmeric ...	13,584	7,786	14,235	8,557	......	......	651	771
	Other kinds ...	23,442	3,828	24,883	4,686	......	......	1,441	858
Earthenware and porcelain ...		755	1,062	714	977	41	85	...	
Fibrous products.	Jute, raw ...	1,579	66	7,2 5	2,083	...	..	5,676	2,017
	Do., manufactured (gunny bags and cloths).	1,30,680	72,706	1,15,259	64,600	15,421	8,097	..	......
	Other fibres, raw ...	8,411	4,000	16,194	9,127	......	......	7,783	5,127
	Ditto, manufactured ..	3,147	947	2,260	1,002	887	......	...	55
Fruits & Nuts	Cocoanuts ...	4,358	2,399	5,675	3,268	......	......	1,317	869
	All other kinds ...	29,952	21,989	31,155	25,267	......	..	1,203	3,278
Grain & Pulses	Wheat ...	5,71,521	1,30,806	5,01,341	1,11,906	70,180	18,900	......	......
	Gram and pulses...	1,60,657	41,167	1,40,017	31,747	20,640	9,420	......	......
	Rice, husked ...	5,96,979	1,14,591	4,79,429	1,18,511	1,17,550	......	......	3,920
	Do., unhusked ...	28,219	3,242	10,769	1,822	17,450	1,420	......	......
	Other rain and spring crops	1,11,355	24,425	92,185	18,725	19,170	5,700	...	......
Government stores...		20,263	35,973	22,229	28,527	......	7,446	1,966	...
Gums and resins ...		4,286	2,326	7,091	3,518	......	......	2,805	1,192
Hides & Skins...	Hides of cattle ...	36,823	23,314	35,022	24,031	1,801	......	...	717
	Skins of sheep, goats, and small animals.	12,847	5,435	12,707	6,184	140	......		749
Horns ...		821	491	1,005	690	......	......	184	199
Lac ...	Lac, dye ...	90	42	202	110	......	......	112	68
	Do., shell ...	8,826	6,546	13,522	10,626	......	......	4,696	4,080
	Do., stick and other kinds ..	14,377	5,026	12,288	4,672	2,089	354	......	......
Leather ...	Leather, unmanufactured ...	897	1,969	1,131	2,329	......	......	234	360
	Ditto, manufactured ...	1,883	2,371	2,181	2,888	.	.	298	517
Liquors ...		14,544	14,504	16,456	14,884	......	......	1,912	320
Mats ...		592	385	595	391	......	......	3	6
Minerals ...		2,11,179	32,946	1,99,173	29,394	12,006	3,552	......	......
Metals and Manufactures of	Brass and copper ...	21,220	15,158	19,297	11,063	1,923	4,095	......	
	Iron ...	85,490	46,367	95,186	65,264	......	...	9,696	18,897
	Other metals ...	5,771	4,757	4,272	3,595	1,499	1,162	......	..
Oils ...		42,105	19,689	36,972	20,721	5,133		......	1,032
Opium ...		23,504	8,645	61,108	29,175	......	......	37,604	20,530
Paints and colours...		922	2,020	2,201	1,956	......	64	1,279	...
Provisions ...	Ghee ...	22,736	13,217	20,098	16,784	2,638	...	.	3,567
	Other kinds ...	7,556	5,421	5,383	4,528	2,173	893	......	......
Railway materials, Construction Account ..		1,73,354	2,793	1,62,515	3,426	10,839		......	633
Ditto ditto, Foreign ...		2,38,433	71,887	1,86,503	52,119	51,930	19,768	......	......
Salt ...		4,73,576	82,686	4,47,757	87,874	25,819	......	......	5,188
Saltpetre, &c.	Saltpetre ...	58,495	25,035	68,867	29,798	......	..	10,372	4,763
	Other saline substances ..	13,137	3,597	22,134	6,282	......		8,997	2,685
Seeds — Oil-seeds.	Linseed ...	5,78,806	1,46,660	9,55,196	3,00,850	...	......	3,76,390	1,54,190
	Mustard and rape ...	3,64,456	71,765	4,92,876	1,63,645	......	..	1,28,420	91,880
	Til or jinjelly ...	3,955	703	2,885	433	1,070	270	......	......
	Other oilseeds ...	2,01,048	50,386	3,47,188	94,786	......	...	1,46,140	44,400
Seeds — Other seeds.	Indigo seed ...	11,661	2,313	9,101	1,293	2,560	1,020	......	......
	Tea seeds ...		......	..	...			......	......
	Other kinds ...	36,622	17,927	33,912	15,597	2,710	2,330	......	.
Silk ...	Silk, raw ...	1,198	913	1,680	967	....	......	482	54
	Do., manufactured (European)	..	......	...	..	......	......	......	......
	Do., ditto (Indian)...	347	282	431	307	......	......	84	85
Spice ...		23,504	18,254	41,520	30,794	..	......	18,016	12,540
Stone and marble...		1,27,869	18,827	93,292	12,031	34,577	6,796	...	......
Sugar ...	Sugar, refined ...	2,76,863	55,401	2,85,867	60,072	...	.	9,004	4,671
	Do., unrefined ...	2,59,657	36,623	2,04,919	28,568	54,738	8,055	......	......
Tea ...	Tea, Indian ...	266	553	789	1,189	......	......	523	636
	Do., Foreign ...	872	12	937	29	..	......	565	17
Tobacco ...		99,488	50,229	1,16,506	45,726	......	4,503	17,018	......
Wood ...	Timber ...	40,261	9,073	30,110	5,020	10,151	3,453	......	......
	Firewood ...	42,042	3,542	39,460	3,870	2,582	172	......	......
Wool ...	Wool, raw ...	2,175	2,188	2,797	2,977	..	......	622	794
	Do., manufactured (European).	......	...	...	......	...	...	...	......
	Wool, manufactured (Indian)	749	733	789	649	...	84	40	......
	Shawls ...	......	...	......		...	...	......	......
All other articles of merchandise ...		2,50,990	1,77,902	2,35,499	1,50,412	15,491	27,490	......	......
Bones ...		26,063	5,845	42,249	12,208	......	......	16 186	6,363
Potatoes ...		41,275	10,076	29,516	7,342	11,759	2,734	......	......
	Total ...	91,81,636	24,34,842	89,63,670	26,54,528	11,31,166	2,23,611	9,13,200	4,43,297

General remarks on the fluctuation of principal staples carried over the East Indian Railway during month ended 27th April 1889.

INCREASES.

Coal and coke.—There was a decrease in the upward and an increase in the downward traffic; the former was due to a limited demand from foreign railways and up-country mills, and the latter to increased despatches for shipment and to the Eastern Bengal State and Port Trust railways.

Cotton.—Chiefly due to despatches from Etawah, Agra, Aligarh, and Khurjah to Howrah, owing to a better demand in the Calcutta market.

Gunny.—Principally in despatches from Howrah, Serampore, Bhadreswar and *viâ* Naihati to Panjab, Oudh and the North-Western Provinces for the new season's crops.

Wheat.—Chiefly in despatches from the Oudh and Rohilkhund Railway *viâ* Moghalsarai and from *viâ* Ghaziabad, Delhi, Khurja, Aligarh, and other distant stations to Howrah for export.

Gram and pulses—

Other rain and spring crops.—The increase under these heads was due to large quantities being sent from Delhi and Cawnpore to Howrah and Bombay for local consumption.

Government stores.—Chiefly in ordnance stores from Howrah to *viâ* Ghaziabad for Rawalpindi, Meerut and Quetta.

Brass and copper.—Due to decline in the price of these metals in the Calcutta market; larger quantities were sent to Mirzapur and other trade centres in the North-Western Provinces.

Railway material, Foreign.—Due to larger despatches of permanent-way material from Howrah to Asansole and Umaria for the Bengal Nagpore Railway, and of railway material for the Indian Midland Railway from Manikpore to Jhansi.

Stone.—This is a continuation of the increase reported in previous months.

Sugar refined and unrefined.—Chiefly in Jaggree from Arrah to Howrah and Bombay, and in Sugar from Buxar and Behea to Agra and stations on the Great Indian Peninsula and Bombay, Baroda and Central India Railways. From Delhi and adjacent stations where the crop was good and prices low, supplies were sent to Agra, Etawah, Firozabad and other stations.

Tobacco.—There was a decrease in weight attended with an increase in earnings, and this was due to lesser quantities being sent longer distances than last year.

DECREASES.

Piece-goods, European.—This was chiefly in the despatches from Howrah, and Bombay *viâ* Jubbulpore.

Other fibres, raw.—Chiefly in hemp from Allahabad, for which there was a considerable demand last year in Calcutta and Bombay.

Rice (husked and unhusked).—There was an increase in weight carried but a decrease in earnings, and this was due to larger despatches to Calcutta from short distance stations.

Iron.—Due to the Calcutta market being dull throughout the month.

Opium.—Chiefly in the despatches from Patna, the traffic being controlled by Government.

Salt.—There was an increase in weight but a decrease in earnings.

Saltpetre.—Principally in receipts *viâ* Mokameh Ghât.

Seeds.—Chiefly in linseed, and was due to inferior crops, a limited demand in Europe, and sea freights being unusually high early in the month.

Spices.—In chillies from Mokameh and Mokameh Ghât.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, JAMALPUR, *5th June* 1889.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of March 1889, as compared with the same month of the previous year.

Staples.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,841	5	2,382	......	2,846	2,382	464	......
Cotton, Raw	.....	1	1	......	1	1	......	......
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	222	.....	136	1	222	137	85	.....
b.—In boxes ...								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	4	39	3	393	43	396	......	353
5.—Others	11	812	14	1,401	823	1,415	.....	592
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	18	......	18	18	18	......	......
2.—Skins of sheep, &c.—								
a.—Dressed ..								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	...	5	.....	64	5	64	......	59
2.—Gunny-bags and cloth	22	....	24		22	24	...	2
Metals—								
1.—Copper, unwrought								
2. Brass, unwrought								
3.—Brass and copper, wrought	59	31	81	25	90	106	......	16
4.—Iron ...								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	80	...	61	......	80	61	19	.....
3.—Others	82	.....	129	......	82	129	...	47
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	83	1,865	176	1,165	1,948	1,341	607	...
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	25	128		667	153	667	...	514
3.—Others	143	197	112	90	340	202	138	...
Railway plant and rolling-stock	145	15	67	33	160	100	60	...
Salt	260	..	138	.....	260	138	122	..
Sugar—								
1.—Drained	8	1,950	5	1,325	1,964	1,330	634	......
2.—Undrained ...								
Wood—								
1.—Timber		.....	19	37		56	.....	56
2.—Firewood								
Tobacco	10	25	17	27	35	44	...	9
All other articles of merchandise—								
1.—Unmanufactured	313	210	268	184	523	452	71	...
2.—Manufactured								
Total ...	4,308	5,307	3,633	5,430	9,615	9,063	2,200	1,648

Increases.

	Tons
Coal	464
For railway and flotilla purposes.	
Oilseeds	607
Increased despatches from Benapol, Gobardanga, Chandpara, Bongong, Singhia and Khoolna, and an improving demand in Calcutta.	
Salt	122
This includes a very small proportion of hide salt.	
Sugar	634
More than half this increase was contributed by Jhikargachi.	

Decreases.

Rice	353
The decrease is exclusively from Khoolna, due chiefly to bad crops in the district and to direct carriage to Calcutta by river.	
Betelnuts	514
The railway has lost the traffic in betelnuts, which now find their way into Calcutta by the Bengal Central Flotilla's direct steamers.	

CALCUTTA, *the 4th June* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 1,513½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	254,492	§2,48,528 10 0	28,02,761 10	6,38,091 13 0	21,174 10 0	9,08,695 1 0	63,246½	105,131½	168,378½
Or per mile of railway	....	164 3 4	......	422 3 1	13 15 10	600 6 3	......	......	......
For previous 21 weeks of half-year	5,620,010	62,62,883 13 0	5,94,93,006 0	1,32,22,728 14 4	3,66,243 1 8	1,98,61,855 13 0	1,373,299½	2,078,114½	3,451,413½
Total for 22 weeks ...	5,874,502	65,11,412 7 0	6,22,95,767 10	1,38,61,720 11 4	3,87,417 11 8	2,07,60,550 14 0	1,436,546½	2,183,246	3,619,792½
Comparison.									
Total for corresponding week of previous year ...	256,431	2,75,170 1 7	28,52,231 10	6,14,786 13 2	18,577 5 6	9,08,534 4 3	63,508	103,996	167,504
Per mile of railway corresponding week of previous year ...		181 12 6	......	406 2 2	12 4 4	600 3 0	......	......	.....
Total to corresponding date of previous year	5,957,052½	66,19,864 5 10	6,31,17,245 20	1,46,74,111 12 1	4,71,095 0 8	2,17,65,071 2 7	1,447,428	[illegible]	3,787,980

§ The decrease in coaching traffic is chiefly due to figures for the corresponding period of 1888 having included heavy cooly traffic and freight of Government mules by ordinary train on account of the Sikkim Expedition.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,513½	9,08,534	600	1,513½	9,08,695	600	1,513½	87,91,414	645	1,513½	86,38,658	634	......	1,52,756

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 57⅕ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	11,107	5,035 2 0	40,023 0	2,426 8 0	38 9 0	7,500 3 0	1,585	809	2,394
Or per mile of railway	194	88 0 5	699 30	42 6 9	0 10 9	131 1 11	......	......	...
For previous 21 weeks of half-year	*300,498	*1,58,918 15 9	†8,82,178 20	†52,793 6 0	‡1,042 14 10	2,12,755 4 7	38,323½	14,314	52,637½
Total for 22 weeks ...	311,605	1,63,954 1 9	9,22,201 20	55,219 14 0	1,081 7 10	2,20,255 7 7	39,908½	15,123	55,031½
Comparison.									
Total for corresponding week of previous year ..	10,187	4,350 2 9	36,790 30	2,420 7 0	23 7 6	6,794 1 3	1,715	679	2,394
Per mile of railway corresponding week of previous years ...	178	76 0 10	643 10	42 5 0	0 6 7	118 12 5	...	...	......
Total to corresponding date of previous year	314,810	1,60,623 3 6	9,27,393 30	60,849 12 0	885 9 [illegible]	2,22,358 8 6	38,660	15,611	54 271

* Added No. of passengers 935 and deducted Rs. 1,312 0 0 }
† Ditto mds. 28,160 and „ 510 0 0 } on account of differences between the approximate and audited returns to week ended 27th April 1889.
‡ Deducted „ 66 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	6,794	119	57½	7,500	131	57½	83,323	162	57½	*83,583	162	260	

* Deducted Rs. 24 on account of difference between the approximate and audited figures from 1st to 27th April 1889.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 12 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,343	555 7 0	14,376 0	373 6 0	9 10 0	938 7 0	244½	249	493½
Or per mile of railway	......	46 4 7	......	31 1 10	0 12 10	78 3 3	......	......	......
For previous 21 weeks of half-year ...	*60,822	*10,342 0 9	†3,82,551 30	†9,086 5 0	200 2 8	19,628 8 5	7,122½	3,100½	10,222½
Total for 22 weeks ...	64,165	10,897 7 9	3,96,927 30	9,459 11 0	209 12 8	20,566 15 5	7,366½	3,349½	10,716
Comparison.									
Total for corresponding week of previous year ...	3,056	521 13 7	17,760 20	645 5 0	6 2 9	1,173 5 4	267	226	493
Per mile of railway corresponding week of previous year ..	......	43 7 9	......	53 12 5	0 8 3	97 12 5	......	......	......
Total to corresponding date of previous year ...	70,345½	11,013 7 1	4,88,838 0	12,689 4 0	224 12 6	24,827 7 7	6,573	4,273	10,.46

* Added No of passengers 612 and Rs. 123 0 0 } on account of differences between the approximate and audited returns to week ended 27th April 1889.
† Ditto mds. 161 and deducted „ 112 0 0 }

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,173	98	12	938	78	12	12,354	114	12	*9,079	84	......	3,275

* Added Rs. 14 on account of difference between the approximate and audited figures from 1st to 27th April 1889.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,383	4,811 2 0	7,837 0	286 10 0	8 6 0	5,106 2 0	910	58	968
Or per mile of railway	..	216 3 8	......	12 14 2	0 6 0	220 7 10	......	......	......
For previous 21 weeks of half-year ...	*483,457	*1,27,613 13 0	†2,01,555 20	†7,290 5 0	‡148 10 10	1,35,052 12 10	19,346	1,277	20,623
Total for 22 weeks ...	501,840	1,32,424 15 0	2,09,392 20	7,576 15 0	157 0 10	1,40,158 14 10	20,256	1,335	21,591
Comparison.									
Total for corresponding week of previous year ...	19,272½	4,930 14 7	7,227 30	278 7 0	6 5 0	5,215 10 7	906	62	968
Per mile of railway corresponding week of previous year .	......	221 9 10	......	12 8 3	0 4 6	234 6 7	......	......	......
Total to corresponding date of previous year ...	494,198½	1,29,878 8 11	1,81,468 10	6,552 11 0	162 15 0	1,36,594 2 11	20,070	1,666	21,736

* Added No of passengers 3,955 and Rs. 1,517 0 0 }
† Deducted mds. 137 and added „ 10 0 0 } on account of differences between the approximate and audited returns to week ended 27th April 1889.
‡ Added „ 13 0 0 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,216	234	22½	5,106	229	22½	60,741	303	22½	*58,994	295	......	1,747

* Added Rs. 1,667 on account of difference between the approximate and audited figures from 1st to 27th April 1889.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 25th May 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	127,080	60,160 0 0	475,230 0	80,800 0 0	13,660 0 0	1,54,650 0 0	21,270	21,845	43,115
Or per mile of railway ...	189	89 0 0	706 0	120 0 0	†2 0 0	211 0 0	......	......	....
For previous 20 weeks of half-year	2,944,244	14,77,214 0 0	1,01,53,586 0	16,77,663 0 0	3,43,165 0 0	*34,98,042 0 0	426,562	479,790	906,352
Total for 21 weeks .	3,071,324	15,37,374 0 0	1,06,28,816 0	17,58,523 0 0	3,56,795 0 0	36,52,692 0 0	447,832	501,635	949,467
Comparison.									
Total for corresponding week of previous year . .	135,551	57,224 0 0	4,52,243 0	82,020 0 0	11,164 0 0	1,50,408 0 0	21,314	21,392	42,706
Per mile of railway corresponding period of previous year .	201	85 0 0	672 0	122 0 0	†1 0 0	208 0 0	......	......	......
Total to corresponding date of previous year	2,952,430	14,85,551 0 0	1,12,72,641 0	16,22,359 0 0	3,18,386 0 0	34,20,290 0 0	459,351	504,842	964,193

* Audited up to week ending 20th April 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,50,408	224	673	1,54,650	230	673	11,39,474	212	673	*12,46,826	232	1,07,352	...

* Audited up to week ending 20th April 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 25th May 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,690	9,390 0 0	60,290 0	3,930 0 0	20 0 0	13,340 0 0	3,597	2,075	5,672
Or per mile of railway	206	75 0 0	482 0	32 0 0	.. ...	107 0 0	......	......	.. ...
For previous 20 weeks of half-year	567,946	1,99,922 0 0	11,24,131 0	65,823 0 0	4,727 0 0	*2,70,472 0 0	70,971	40,952	111,923
Total for 21 weeks ...	593,636	2,09,312 0 0	11,84,421 0	69,753 0 0	4,747 0 0	2,83,812 0 0	74,568	43,027	117,595
Comparison.									
Total for corresponding week of previous year	28,675	8,539 0 0	41,314 0	2,943 0 0	34 0 0	11,516 0 0	3,650	2,094	4,744
Per mile of railway corresponding period of previous year .	213	68 0 0	331 0	24 0 0	. .	92 0 0	......	......	......
Total to corresponding date of previous year	558,575	1,85,869 0 0	10,69,800 0	68,752 0 0	4,067 0 0	2,58,688 0 0	71,608	42,212	113,220

* Audited up to week ending 20th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,516	92	125	13,340	107	125	91,942	92	125	*1,06,074	106	14,132	

* Audited up to week ending 20th April 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th May 1889, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,020	4,230 0 0	13,720 0	690 0 0	100 0 0	5,020 0 0	2,502	602	3,104
Or per mile of railway	151	49 0 0	160 0	8 0 0	1 0 0	58 0 0	......	......	......
For previous 20 weeks of half-year	298,590	94,437 0 0	2,50,930 0	19,512 0 0	3,272 0 0	*1,17,221 0 0	48,358	13,869	62,227
Total for 21 weeks ..	311,610	98,667 0 0	2,64,650 0	20,202 0 0	3,372 0 0	1,22,241 0 0	50,860	14,471	65,331
Comparison.									
Total for corresponding week of previous year	12,559	3,619 0 0	6,060 0	1,001 0 0	232 0 0	4,852 0 0	2,502	1,111	3,613
Per mile of railway corresponding period of previous year	146	42 0 0	70 0	11 0 0	3 0 0	56 0 0	.....	.....	.....
Total to corresponding date of previous year	294,327	80,204 0 0	2,44,746 0	18,044 0 0	3,762 0 0	1,11,010 0 0	52,321	13,4[illegible]	65,733

* Audited up to week ending 20th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
[illegible]	4,852	56	86	5,020	58	86	39,350	57	86	*41,441	60	2,091	.

* Audited up to week ending 20th April 1889.

ASSAM-BEHAR STATE RAILWAY.

Purneah Section.

Approximate Return of Traffic for week ended 25th May 1889, *on* 38 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts			Coaching.	Merchandise	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week .. .	2,700	940 0 0	33,390 0	2,570 0 0	10 0 0	3,520 0 0	532	532	1,064
Or per mile of railway .	71	25 0 0	879 0	68 0 0	...	93 0 0	....	... ..	
For previous 20 weeks of half-year	59,302	21,817 0 0	5,44,126 0	39,034 0 0	3,348 0 0	*64,199 0 0	10,512	10,512	21,024
Total for 21 weeks ..	62,002	22,757 0 0	5,77,516 0	41,604 0 0	3,358 0 0	67,719 0 0	11,044	11,044	22,088
Comparison.									
Total for corresponding week of previous year ..	3,403	1,053 0 0	31,939 0	2,535 0 0	17 0 0	3,605 0 0	546	546	1,092
Per mile of railway corresponding period of previous year .	87	27 0 0	819 0	65 0 0	....	92 0 0	......	...	..
Total to corresponding date of previous year	66,036	22,301 0 0	5,09,976 0	43,812 0 0	918 0 0	67,031 0 0	11,466	11,466	22,932

* Audited up to week ending 20th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 26th May 1888.			Receipts for week ending 25th May 1889.			Total receipts from 1st April 1888 to 26th May 1888.			Total receipts from 1st April 1889 to 25th May 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
39	3,605	92	38	3,520	93	39	26,684	86	38	*27,537	91	853	......

* Audited up to 20th April 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st June 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,984	988 0 0	12,621 0	797 0 0	12 0 0	1,797 0 0	509	254	763
Or per mile of railway	108	36 0 0	463 0	29 0 0	1 0 0	66 0 0	.....		
For previous 20 weeks of half-year ...	68,573	25,571 0 0	2,25,717 0	13,865 0 0	1,471 0 0	40,907 0 0	10,544	8,773	19,317
Total for 21 weeks ...	71,507	26,559 0 0	2,38,338 0	14,362 0 0	1,483 0 0	42,704 0 0	11,053	9,027	20,080
COMPARISON.									
Total for corresponding week of previous year	3,268	1,273 0 0	4,613 0	321 0 0	10 0 0	1,604 0 0	509	254	763
Per mile of railway corresponding week of previous year ..	120	47 0 0	169 0	12 0 0	......	59 0 0	......	.....	
Total to corresponding date of previous year ...	72,121	26,402 0 0	3,21,749 0	18,325 0 0	402 0 0	45,279 0 0	11,108	9,280	20,478

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,604	59	27½	1,797	66	27½	16,252	66	27½	14,704	60	...	1,548

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st June 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open	41,578	15,162 0 0	2,43,191 0	20,677 0 0	4,322 0 0	40,161 0 0	4,734	5,516	10,250
Or per mile of railway ..	152	55 0 0	891 0	76 0 0	3 0 0	134 0 0*	.	...	...
For previous 20 weeks of half-year	901,836	3,37,546 0 0	33,10,816 0	3,07,447 0 0	73,602 0 0	7,18,595 0 0	111,229	116,903	228,132
*Total for 21 weeks ...	943,414	3,52,708 0 0	35,54,007 0	3,28,124 0 0	77,924 0 0	7,58,756 0 0	115,963	122,419	238,382
COMPARISON.									
Total for corresponding week of previous year on 259 miles open	35,588	13,299 0 0	1,85,557 0	17,663 0 0	3,526 0 0	34,488 0 0	5,916	6,339	12,255
Per mile of railway corresponding week of previous year .	137	51 0 0	716 0	68 0 0	4 0 0	123 0 0*	.	..	...
Total to corresponding date of previous year	953,951	3,69,521 0 0	43,24,763 0	4,67,416 0 0	74,392 0 0	9,11,829 0 0	135,613	169,397	305,010

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	34,488	133	273	40,161	147	259	*3,53,548	152	273	3,52,124	143	....	1,124

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 18th May 1889	14,176
Corresponding week last year	14,919
Decrease	743
Receipts from 1st January to 18th May 1889	1,83,022
From 1st January to 19th May 1888	1,91 784
Decrease	8,762
	Miles.
Miles open week ending 18th May 1889	51
Corresponding week last year	51

	Rs.	A.	P.
Receipts per mile open week ending 18th May 1889	277	15	4
Corresponding week last year	292	8	8
Decrease	14	9	4

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 12th June 1889.

REGISTERED No. 29.

No. 25 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JUNE 19, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

NEW ZEALAND AND SOUTH SEAS EXHIBITION.

THE following is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

Dated the 18*th June* 1889.

Extract from the Proceedings of the Government of India, Revenue and Agricultural Department (Museums and Exhibitions),—dated Simla, the 8th June 1889.

The following papers received from the Administrator of the Government of New Zealand relative to the New Zealand and South Seas Exhibition to be held at Dunedin in 1889-90, are published for general information.

NEW ZEALAND AND SOUTH SEAS EXHIBITION.

Patrons :

His Excellency Major-General Sir William F. Drummond Jervois, C.B., G.C.M.G., R.E., ETC.

His Excellency the Right Honourable the Earl of Onslow, G.C.M.G.

President :

John Roberts, Esq.

Vice-Presidents :

The Hon'ble Sir Harry Albert Atkinson, K.C.M.G., Premier of New Zealand.
Sir F. Dillon Bell, Agent-General for New Zealand.
Count De Jouffroy D'abbans, Consul-General of France, New Zealand.
The Hon'ble T. Fergus, Minister of Justice and Defence, New Zealand.
The Hon'ble Sir W. Fitzherbert, K.C.M.G., Speaker of the Legislative Council, New Zealand.
Sir George Grey, K.C.B.
The Hon'ble Sir John Hall, K.C.M.G., M.H.R.
Sir James Hector, K.C.M.G.
The Hon'ble R. Oliver, M.L.C.
The Hon'ble Sir Maurice O'Rorke, Speaker of the House of Representatives, New Zealand.
The Hon'ble W. H. Reynolds, M.L.C.
The Hon'ble Colonel Sargood, M.L.C., Victoria.
The Hon'ble Sir Robert Stout, K.C.M.G.
The Hon'ble Sir Julius Vogel, K.C.M.G., M.H.R.
His Honor Mr Justice Williams
His Worship the Mayor of Dunedin (H. Gourley, Esq.)

Executive Commissioner :

R. E. N. Twopeny, Esq.

Commissioners :

A. Bartleman, Esq., J.P.
Rev Dr. Pelcher
Geo. Bell, Esq. J.P.
T. Brown, Esq.
Thos Brydone, Esq., J.P.
W. Carlton, Esq
J. H. Cook, Esq., Chairman, Wellington Chamber of Commerce.
Capt. Colbeck, President, Auckland Chamber of Commerce.
W. Dawson, Esq.
D. Dunn, Esq, Mayor of Oamaru.
J. Duthie, Esq., J.P., Mayor of Wellington.
H. S. Fish, Esq., J.P., M.H.R.
Hon'ble G. Fisher, Minister of Education.
T. Fleming, Esq, Mayor of Invercargill.
W. Gow, Esq.
B. Hallenstein, Esq., J.P.
T. M. Hocken, Esq., M.D.
M. Joel, Esq.
A. Kaye, Esq., President, Canterbury Chamber of Commerce.
A. Lee Smith, Esq
C. Louisson Esq., Mayor of Christchurch.
M. J. Maude, Esq, Mayor of Hokitika.
J. Mills, Esq., M.H.R.
J. H. Morrison, Esq., J.P.
V. Pyke, Esq., M.H.R.
G. W. Riely, Esq., Mayor of Blenheim.
A. H. Ross, Esq., M.H.R.
D. M. Ross, Esq., Mayor of Timaru.
J. B. Roy, Esq, Mayor of New Plymouth.
John Sharpe, Esq, Mayor of Nelson,
G. H. Swan, Esq., Mayor of Napier.
J. White, Esq.

Treasurer :

A. Bartleman, Esq.

Secretary :

D. Harris Hastings.

OFFICIAL PROGRAMME.

It is intended to celebrate the Fiftieth Anniversary of the Foundation of the Colony of New Zealand, by holding in the City of Dunedin an Exhibition of arts, industries, resources, and manners of New Zealand, Australia, and the other Countries and Colonies in the Southern Pacific

The principal objects of this Exhibition are to practically illustrate the development of the resources of New Zealand during the first half century of her existence, in comparison with the progress made by other Colonies, British and Foreign; to stimulate industry and promote Intercolonial commerce; to strengthen the natural ties which connect all the Countries in the South Pacific Ocean, and to call attention to their position and potentialities.

The recent improvement in the commercial condition of New Zealand, and the prospect of prosperity immediately before her, offers special opportunities for the development of industry and the extension of Intercolonial commerce; whilst many considerations point to the desirability of bringing the importance of the South Sea Islands into notice, and cultivating a closer acquaintance with their peoples.

The Exhibition is held by, and at the risk of, a number of New Zealand colonists, who have subscribed a Guarantee Fund for the purpose, after the model of those upon which the Great Exhibition of 1851, the London International Exhibition of 1862, and the Adelaide Jubilee Exhibition of 1887 were carried out.

The Government of New Zealand have recognised this Exhibition as the Official Celebration of the Jubilee of the Colony, and issued invitations to the Governments of Australia and the other Colonies and Islands in the Southern Pacific to be officially represented thereat. They have further undertaken to assist the Exhibition by erecting the main building, which will contain the picture galleries, and themselves exhibiting collections illustrating the fauna, flora, geology, and mineralogy of New Zealand, as well as objects of historical interest. The Government will also, with the assistance of the native chiefs, organise a representation of Maori life and customs.

The Commissioners invite exhibits of all kinds from all Colonies, British and Foreign, wheresoever situated, as well as from Islands under British rule in the South Pacific. They are also desirous of obtaining Works of Art, Educational, Scientific, and Machinery Exhibits from other countries; but ordinary Industrial Exhibits from Europe and America can only be admitted under special conditions. Inducements will be offered for the exhibition of processes of manufacture.

With the consent and support of the other chief cities of New Zealand, the Exhibition will be held in Dunedin, which is the centre of the railway system of the southern and most populous island of the Colony. A suitable site has been obtained in the heart of the town, close to the railway station and intercolonial wharves. A line of railway will deliver exhibits into the grounds.

The Exhibition will be open to the public on Tuesday, 26th November, 1889, and close about the middle of April, 1890. It will be open in the evening as well as the day time.

The Government will issue customs regulations for the free admission of Intercolonial and Foreign Exhibits, similar to those in force at Melbourne and other Intercolonial Exhibitions, and similar railway privileges will be allowed for exhibits. The reproduction of exhibits will be prohibited by law.

CONDITIONS AND REGULATIONS.

1. Governments intending to take part in this Exhibition are requested to intimate the same as soon as possible. Applications for space for exhibits from Colonies officially represented must be made through the Commissioners of the Colonies to which the applicant belongs. Applications from countries and colonies not officially represented should be addressed directly to the Secretary at Dunedin.
2. Applications for space, with full particulars, are invited as early as possible, and in the allotment of space precedence will be given, as far as possible to priority of application. No application will be received later than the 1st of July, 1889. Forms of application and all information can be obtained from the Secretary.
3. The ordinary charge for space will be £1 1s. for the first ten square feet or any less space, and a shilling for every additional square foot. Sculpture and paintings approved by the Fine Arts Committee will be admitted free, as well as educational and scientific exhibits shown by Government departments, and exhibits in Classes 34 and 35. Machinery and bulky exhibits will be shown in special annexes, in which space will be charged for at the reduced rate of £1 1s. for the first 20 feet, and sixpence for every additional foot. Wall space will be charged at the same rate as machinery. All applications must be accompanied by payment of the full amount of the space required. Special arrangements can be made for the exhibition of articles in the grounds.
4. The Exhibition will be ready for the reception of exhibits on October 1, 1889, and space not occupied by November 1, 1889, will revert to the Commissioners for re-assignment. The Executive Commissioner shall at any time have power to reserve or reduce space which, in his opinion, is not fully occupied or misused.
5. The Executive Commissioner may issue at his discretion weekly licenses for the sale of articles manufactured in the Exhibition, but no other exhibit will be allowed to be taken out of the buildings until the close of the Exhibition; and any exhibitor selling goods for immediate delivery renders himself liable to the forfeiture of his space and all rights as an exhibitor.
6. The Exhibition building will be constituted a bonded store, but exhibits sold will be subject to duty.
7. The introduction of dangerous substances is strictly prohibited.
8. Packages intended for the Exhibition must be painted or labelled with the following device as a distinctive mark:—N. Z. E., together with the name of the exhibitor and country or colony in which court the exhibit will be shown.
9. Customs entries, transportation, receiving, and arranging articles for exhibition must be undertaken by the exhibitor at his own expense, but no charge will be made for the carriage of goods intended for exhibition on the railway lines. New Zealand and Island exhibits will be carried free on the Union S. S. Company's boats, and Australian exhibits the double journey at single freight.

10. The protection of invention capable of being patented and of designs is secured by the patent law of New Zealand. No exhibit may be drawn, copied or reproduced in any manner whatsoever without the joint consent of the exhibitor and the Executive Commissioner. The Commissioners, however, reserve to themselves the right of authorising the production of general views.
11. If exhibits are not intended for competition, notice must be given in the application for space.
12. An official catalogue will be published in English by the Commissioners, by whom the sale of catalogues is reserved. Anything beyond the ordinary description of the exhibit, together with the name of the exhibitor, must be paid for as an advertisement.
13. The representatives of countries and colonies will be allowed to group their exhibits as they may think fit in that portion of the Exhibition buildings allotted to them, subject always to the approval of the Executive Commissioner.
14. Motive power will be supplied to exhibits of processes of manufacture free of charge on application to the Executive Commissioner; but the right is reserved of reducing the amount asked for, or to make a charge for certain portions of the motive power supplied at discretion. The Commissioners desire to encourage the display of machinery in motion, and of all descriptions of manufactures in progress. Requests for motive power must be made to the Secretary prior to 1st July 1889.
15. All shafting, pulleys, belting, machines, &c., for the transmission of power from the main shafting, must be provided by and at the cost of the exhibitor.
16. Judges will be appointed by the Commissioners, acting mainly upon the recommendation of the exhibitors themselves. Certificates of first, second, and third order of merit will be awarded.
17. The removal of exhibits from the Exhibition buildings and grounds must be completed within one mnoth from the close of the Exhibition. Goods remaining after that period will be removed by order of the Executive Commissioner, at the risk of exhibitors and sold by auction or otherwise disposed of at his direction, and the net proceeds handed to the exhibitors or their duly appointed agents.
18. Every person who becomes an exhibitor thereby acknowledges and undertakes to observe the rules and regulations established from time to time for the government of the Exhibition.
19. The Commissioners reserve the right to alter, explain, or add to these regulations at any time, whatever may be deemed necessary.
20. Precaution will be taken to preserve exhibits from injury and to guard the buildings, but no responsibility will be taken for damage or loss from whatever cause. Exhibitors will make their own arrangements for effecting insurances.

Form of applications for space and all further information can be obtained from

D. HARRIS HASTINGS, *Secretary.*

CLASSIFICATION OF EXHIBITS

CLASS 1.—Geological and Mineralogical Collections
2.—Mining and Metallurgical Machinery and Appliances.
3.—Chemical Manufactures.
4.—Glassware, Pottery, etc.
5.—Household Furniture, Brushware, etc.
6.—Heating and Lighting Apparatus.
7.—Textile Fabrics.
8.—Ready made Clothing, etc.
9.—Printing, Stationery, etc.
10.—Armament, Native Weapons, etc.
11.—Surgical and Pharmaceutical Appliances.
12.—Hardware
13.—Carriages, Horse furniture, etc.
14.—Educational Appliances.
15.—Scientific Instruments.
16.—Musical Instruments.
17.—Sanitary and Athletic Appliances.
18.—Works of Art.
19.—Photographs
20.—Machinery for Wood and Metal Working, etc.
21.—Sewing, Knitting, Printing Machines.
22.—Heavy Machinery, Castings, Ship Models, etc.
23.—Forestry Products.
24.—Agricultural Products.
25.—Wines, Spirits, Beers, Cordials, Ærated Waters, and Cooperage.

26.—Animal Food Products.
27.—Boots, Shoes, Saddlery, Leather, etc.
28.—Wood and Fibres.
29.—Stuffed Animals, Insects, Bee-keeping Appliances.
30.—Traps for Game, and Fishing Tackle.
31.—Agricultural Machinery and Implements.
32.—Flowers, Fruit Models, Garden Appliances.
33.—Silversmiths' Work.
34.—Artisan's Individual Work.
35.—Women's Work.

No. $\frac{37}{29-3}$ Ex.

ORDER.—Ordered, that the foregoing papers be published in the Supplement to the *Gazette of India* for general information, and that copies be forwarded to the Local Governments and Administrations noted on the margin, with a request that the prospectus may be published in the local Gazette, and that such steps may be taken to make it known among merchants and manufacturers as may be considered desirable.

Madras. Bombay. Bengal. North-Western Provinces and Oudh. Punjab. Central Provinces. Burma. Assam. Coorg. Hyderabad. Ajmere and Merwara.

(True Extract).

E. C. BUCK,

Secretary to the Government of India.

RETUNRS OF JOINT-STOCK COMPANIES FOR THE YEAR 1888-89.

No. I.

Statement showing the name and number on the register borne by each Joint-Stock Company registered in the Calcutta Registry Office, with its object, nominal capital, and date of registration during the year ending 31st March 1889.

Number on this list.	Number borne by each company in the general register.	Name of the Company.	Object of each Company.	Date of registration.	Nominal capital.	Remarks
					Rs.	
1	552	Catholic Book-selling Co., Ld.	Business of printer, book-seller and publisher.	17th April 1888 ...	20,000	
2	553	Digh Pait Milit Dhan Bhandar Co., Ld.	Banking business	2nd May ,, ..	20,000	
3	554	Indian Patent Stone Co., Ld. ...	Manufacturer of patent stone	8th ,, ,, ...	57,000	
4	555	Okayti Tea Co., Ld.	To cultivate tea, &c. ...	5th June ,, ...	2,00,000	
5	556	H. Dear & Co., Ld.	Business of contractors, merchants, and dealer in timber.	15th ,, ,, ...	6,00,000	
6	557	Behar Co-operative Stores Association, Ld.	Business of general trading ...	15th ,, ,, ..	50,000	
7	558	New Glencoe Tea Co., Ld. ...	To cultivate tea, &c.	17th July ,, ..	1,60,000	
8	559	Carron Tea Co., Ld.. ...	Ditto ditto ...	2nd Aug. ,, ..	1,50,000	
9	560	Nagaisuree Tea Co., Ld.	Ditto ditto	23rd ,, ,, ...	2,40,000	
10	562	Gungaram Tea Co., Ld.	Ditto ditto ...	27th Sept. ,,	1,00,000	
11	563	Kamai Tea Co., Ld.	Ditto ditto	7th Nov. ,, ..	2,00,000	
12	564	Behar Commercial Co., Ld.	Mercantile business	29th ,, ,, ...	20,000	
13	565	Oriental Baling Co., Ld. ..	Pressing jute, cotton, &c. ..	7th Dec. ,,	1,00,000	
14	566	Calcutta Cotton Mills Co., Ld.	Spinning ditto	5th Jan. 1889 ..	5,00,000	
15	567	Rangoon Steam Tramway Co., Ld.	Constructing tramways in Rangoon	15th Feb. ,,	7,50,000	
16	568	Chota Nagpore Carrying Co , Ld.	To carry passengers and goods from Ranchi to Purulia and Hazaribagh to Giridhi and *vice versâ*.	20th ,, ,,	20,000	
17	569	Dehing Saw Mills Co., Ld. ...	Business of saw mills, &c. ...	23rd ,, ,, ..	1,00,000	
18	570	Kayast Trading Co., Ld. ...	Trading in general merchandise	5th Mar. ,, ...	20,000	
19	572	Huldibari Tea Association, Ld. ...	To cultivate tea, &c. ...	27th ,, ,, ..	3,00,000	
20	573	Sath Bhaia Tea Co., Ld. ...	Ditto ditto	27th ,, ,, ..	1,00,000	
					37,07,000	

No. II.

Statement showing the register number and name of Companies that have increased their capital during the year ending 31st March 1889.

Number on this list.	Register number borne by each company.	Date of registration.	Amount of original capital.	Names of Companies.	Date of increase.	Amount of increased capital	Remarks
			Rs.			Rs.	
1	405	5th October 1880 ...	9,00,000	Union Jute Co., Ld.	10th July 1888	12,00,000	
2	444	28th July 1882	6,00,000	Titaghur Paper Mills Co., Ld.	1st November ,,	9,00,000	
3	567	15th June 1888 ...	50,000	Behar Co-operative Stores Association, Ld.	12th February 1889	1,00,000	
			15,50,000		Total	22,00,000	

No. III.

Statement showing the register numbers and names of Companies that have commenced winding up, have been finally dissolved, or are otherwise defunct, with their capital, date of registration, winding up, or final dissolution during the year ending 31st March 1889.

Number on this list.	Number borne by each company on the register.	Names of Companies.	Nominal capital.	Date of registration.	Date of winding up.	Date of final dissolution.	Date on which written off defunct.	Remarks.
			Rs.					
1	490	Deoghur Mining Co., Ld....	9,45,000	18th Jan 1884	17th April 1888	... ..	..	
2	363	Seema Tea Co , Ld. ...	1,00,000	2nd Jan. 1878	... .	. ..	4th June 1888	
3	438	Bengal Purveying Co., Ld.	50,000	27th April 1882	.	.	4th ,, ,,	
4	260	Gowhatty Tea Co., Ld. ..	4,00,000	2nd May 1873	27th July 1886	25th May 1888	.	
5	527	Kheri Indigo Association, Ld. ...	60,000	18th Mar. 1886	9th June 1888	......	..	
6	424	Jotinga Valley Tea Co., Ld. ..	3,00,000	16th Jan. 1882	10th Feb. ,,	20th June 1888		
7	447	Kamptie Gwallie Tea Co., Ld	2,20,000	5th Sept. ,,	9th July ,,	24th Jan. 1889	..	
8	400	Hapjan Tea Association, Ld.	70,000	5th Mar. 1880	7th Nov. ,,	......	...	
9	536	Green & Co., Ld.	8,000	5th Feb. 1887	1st Dec. ,,	... ..	......	
10	24	Bengal Uncovenanted Service Medical Hall Association, Ld.	50,000	8th Dec. 1858	9th Jan. 1889	......	......	
11	228	Adulpore Terai Tea Co., Ld. ...	1,10,000	5th June 1871	21st ,, ,,	.	... ..	
12	485	Chumta Tea Co., Ld. ...	1,50,000	2nd Nov. 1883	18th Feb. ,,	.... .	.....	
13	412	Goomtee Tea Co., Ld. .	20,000	8th Mar. 1881	28th ,, ,,	...	. ....	
14	496	Cuttack Ice Co., Ld. ..	10,000	21st April 1884	......	......	9th Mar. 1889	
15	504	Goosery Pressing Co., Ld.	1,50,000	31st Dec. ,,	... .	......	9th ,, ,,	

No. IV.

Statement showing the register numbers and names of Companies that have reduced their capital during the year ending 31st March 1889.

Number.	Register number borne by each Company.	Date of registration.	Amount of original capital.	NAME OF THE COMPANY.	Date of reduction.	Amount of capital reduced.	REMARKS.
				Nil.			

No. VI.

Statement showing the number and name of existing Companies working in Bengal for the year ending 31st March 1889.

BANKING AND INSURANCE COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	When registered.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
1	1	Hong-Kong and Shanghai Banking Corporation	7th April 1866	1,68,75,000	1,68,75,000	31st Dec. 1888	
2	2	Furreedpore Loan Office, Ld. ...	13th June 1870	2‹,000	18,500	11th April ,,	
3	3	Tipperah Loan Office, Ld.	25th March 1871	1,00,000	87,500	11th ,, ,,	
4	4	Mymensing Loan Office, Ld. .	23rd Sept. 1873	1,00,000	66,590	11th ,, ,,	
5	5	Barisal Loan Office, Ld.	17th Nov. ,,	20,000	18,000	12th March 1889	
6	6	Bogra Loan Office, Ld. .	5th ,, 1874	20,000	20,000	11th April 1888	
7	7	Nasirabad Loan Office, Ld.	26th Sept. 1875	50,000	27,200	11th ,, ,,	
8	8	Jessore Loan Co., Ld. .	12th April 1876	1,20,000	1,00,000	31st March ,,	
9	9	Saharserpur Loan Office, Ld ...	26th June ,,	20,000	15,170	11th April ,,	
10	10	Moonsheegunge Loan Office, Ld. ..	29th July ,,	20,000	12,010	14th Dec. ,,	
11	11	Hindoo Union Bank, Ld.	26th Feb 1880	20,000	1,530	31st ,, ,,	
12	12	Dacca Loan Office, Ld.	29th March ,,	2,00,000	1,39,060*	11th April ,,	* By oversight shown as 1,47,030 in 1887-88
13	13	Sylhet Loan Co., Ld.	13th Aug. 1881	20,000	6,280	14th July ,,	
14	14	Chota Nagpore Banking Association, Ld.	21st Feb. 1883	20,000	10,440	31st Dec. ,,	
15	15	Pabna Bank, Ld. .	8th Aug. ,,	20,000	12,920	11th April ,,	
16	16	Kisoregunge Loan Office, Ld. ...	19th Sept ,,	50,000	29,750	11th ,, ,,	
17	17	Noakhali Loan Office, Ld.	2nd March 1885	20,000		..	
18	18	Tangail Loan Office, Ld. .	12th Feb. 1887	50,000	10,000	11th April 1888	
19	19	Ghatail Sanmeloni Dhan Bhandar Co., Ld .	27th July ,,	20,000	3,830	11th ,, ,,	
20	20	Kurigram Loan Office, Ld.	4th Aug. ,,	10,000			
21	21	Khulna Loan Co., Ld.	15th Sept. ,,	15,000	14,817	31st Dec. 1888	
22	22	Digh Pait Milit Dhan Bhandar Co., Ld. ...	2nd May 1888	20,000		.. .	
23	23	Amicable Insurance Office, Ld. ..	26th ,, 1886	10,00,000	20,500	28th Feb. 1889	
24	24	Triton Insurance Co., Ld.	5th Sept. 1887	22,50,000	4,23,450	31st Dec. 1888	
25	25	Reliance Marine Insurance Office, Ld.	9th Nov. ,,	20,00,000	44,850	31st ,, ,,	
		Total .		2,30,60,000	1,79,53,607		

TRADING COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	When registered.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
26	1	Darjeeling Himalayan Railway Co., Ld .. - ..	10th April 1879	17,50,000	17,50,000	31st Dec. 1888	
27	2	Deoghur Railway Co., Ld. .	30th Jan. 1882	2,75,000	2,75,000	31st ,, ,,	
28	3	Turkessur Railway Co., Ld. .	18th Feb. 1884	16,50,000	16,50,000	31st ,, ,,	
29	4	Rangoon Steam Tramway Co., Ld.	15th ,, 1880	7,50,000	.	....	
30	5	Assensol E. I. R. Co-operative Society, Ld. .	13th ,, 1873	10,000	10,000	31st ,, 1886	
31	6	Buxar Co-operative Society, Ld.	25th May ,,	4,000	4,000	31st ,, 1888	
32	7	Northern Bengal Railway Co-operative Supply Assn., Ld .	30th ,, 1882	8,000	8,000	30th June ,,	
33	8	Assensol Railway Co-operative Ice and Aerated water-supply, Ld ..	30th Nov 1887	16,000		..	
34	9	Behar Co-operative Stores Assn., Ld. .	15th June 1888	1,00,000	... .	....	
35	10	India General Steam Navigation Co., Ld. .	25th Sept. 1858	80,00,000	70,74,400	31st March 1888	
36	11	Burmah Steam Tug Co., Ld ..	12th July 1866	3,00,000	1,89,000	31st Oct. 1887	
37	12	Orissa Coasting Steam Navigation Co., Ld. ...	24th Aug. 1882	4,00,000	2,84,905	31st July 1888	
38	13	Calcutta Steam Navigation Co., Ld. .. .	8th Nov. ,,	8,40,000	8,40,000	31st Dec. ,,	
39	14	Calcutta Landing and Shipping Co., Ld.	7th Aug. 1863	5,00,000	4,20,000	30th April ,,	
40	15	R. Scott Thomson and Co., Ld. ..	1st April ,,	5,00,000	4,67,000	31st March ,,	
41	16	Howrah Docking Co., Ld. ..	15th Sept. ,,	8,00,000	8,00,000	30th June ,,	
42	17	Agricultural Phosphates Co., Ld.	18th Dec. 1873	1,00,000	85,000	31st Dec. ,,	
43	18	Narail Trading Co., Ld. ...	20th March 1879	20,000	6,668	31st ,, ,,	
44	19	Pingna Trading Co., Ld. ...	7th Feb. 1881	1,00,000	50,000	11th April ,,	
45	20	Co-operative Pharmacy Co., Ld.	31st May 1882	50,000	29,123	30th June 1887	
46	21	W. Newman and Co., Ld. .	11th Feb. ,,	3,50,000	3,1‹,500	30th ,, 1888	
47	22	Gobra Tannery Co., Ld. . ..	9th Sept. ,,	1,50,000	1,50,000	31st Dec. ,,	
48	23	Darjeeling and Kurseong Hotel and Trading Co., Ld.	2nd Feb. 1883	2,00,000	2,00,000	31st ,, ,,	
49	24	Kerosine Oil Co., Ld.	9th Dec. 1884	10,000	6,000	31st ,, ,,	
50	25	Great Eastern Hotel Wine and General Purveying Co., Ld. .	4th Feb. 1886	12,00,000	12,00,000	30th April ,,	
51	26	Raneegunge Cement and Lime Works, Ld.	30th June 1887	3,00,000	... .	.. ...	
52	27	Mofussil Supply Co., Ld.	4th Aug. ,,	10,000	... ..		
53	28	Indian Tea Supply Co., Ld. ..	8th Dec ,,	3,00,000	... ..	. .	
54	29	Catholic Book-selling Co., Ld. ...	17th April 1888	20,000	..		
55	30	H. Dear and Co., Ld.	15th June ,,	6,00,000	6,00,000	31st Oct. ,,	
56	31	Behar Commercial Co., Ld. ...	29th Nov. ,,	20,000	......	....	
57	32	Chotanagpore Carrying Co., Ld. ...	20th Feb. 1889	20,000	... .	. .	
58	33	Kayast Trading Co., Ld.	5th Mar. ,,	20,000	......	. . .. ..	
				1,93,73,000	1,64,44,686		

MILLS AND PRESSES.

Serial number.	Number.	NAMES OF COMPANIES.	When registered.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
59	1	Goosery Cottons Mills Co., Ld. ...	9th Oct. 1863	15,00,000	15,00,000	31st Dec. 1888	
60	2	Bowreah Cotton Mills Co., Ld. ..	7th Aug. 1872	18,00,000	18,00,000	29th Feb. ,,	
61	3	Dunbar Cotton Mill, Ld.	18th Dec. 1874	20,00,000	13,28,500	31st Dec. 1887	
62	4	Empress of India Cotton Mills Co, Ld. ..	10th April 1877	8,75,000	8,75,000	31st ,, 1888	
63	5	Calcutta Cotton Mills Co, Ld. ...	5th Jan. 1889	5,00,000	...	...	
64	6	Budge-Budge Jute Mills Co., Ld.	21st April 1873	18,(0,000	14,40,000	*30th April 1888	
65	7	Fort Gloster Jute Manufacturing Co, Ld. .	6th May ,,	14,00,000	14,00,000	30th Nov. ,,	
66	8	Seebpore Jute Manufacturing Co, Ld ...	1st Dec. ,,	15,00,000	15,00,000	31st Dec. ,,	
67	9	Howrah Mills Co, Ld ...	14th July 1874	17,50,000	17,50,000	31st ,, ,,	
68	10	Goursypore Co, Ld.	12th April 1876	12,00,000	12,00,000	31st ,, ,,	
69	11	Kamarhatty Co, Ld. ...	28th Sept. 1877	8,00,000	4,00,000	31st ,, ,,	
70	12	Union Jute Co., Ld. ...	5th Oct. 1880	12,00,000	9,00,000	31st ,, ,,	
71	13	Hooghly Mills Co., Ld.	21st Sept. 1882	13,50,000	10,50,000	31st ,, ,,	
72	14	Kanknarrah Co., Ld.	30th Dec. ,,	14,00,000	8,26,000	31st ,, ,,	
73	15	Bengal Silk Co, Ld.	20th June 1881	3,50,000	3,50,000	31st Oct. ,,	
74	16	Nasmyth's Patent Press Co., Ld. ...	16th Sept. 1867	4,00,000	4,00,000	30th June ,,	
75	17	Calcutta Hydraulic Press Co., Ld.	10th April 1873	1,70,000	1,70,000	31st Dec. ,,	
76	18	Watson's Patent Press Co., Ld. ..	25th Feb. 1874	3,00,000	3,00,000	31st ,, ,,	
77	19	Ramkristopore Press Co., Ld.	23rd April 1874	1,30,000	1,30,000	30th Sept. ,,	
78	20	Riverside Press Co. (Watson's Patent), Ld. ...	13th July ,,	3,00,000	2,98,900	30th June ,,	
79	21	Strand Bank Press Co. (Watson's Patent), Ld.	24th ,, ,,	2,50,000	2,50,000	31st Jan. 1889	
80	22	Chitpore Hydraulic Pressing Co., Ld	17th March 1879	4,00,000	4,00,000	31st Dec. 1888	
81	23	Canal Press Co, Ld. ..	20th Sept. 1881	2,40,000	2,00,000	31st July ,,	
82	24	Camperdown Pressing Co., Ld. ..	25th July 1882	5,00,000	4,30,000	31st ,, ,,	
83	25	Agra Pressing Co, Ld	30th June 1883	1,55,000	1,45,750	30th June ,,	
84	26	India Pressing Co., Ld.	13th Aug. ,,	1,50,000	1,50,000	31st Dec. ,,	
85	27	Oriental Baling Co., Ld .	7th Dec. 1888	1,00,000			
86	28	Titaghur Paper Mills Co., Ld. ...	28th July 1882	9,00,000	6,00,000	30th June 1888	
87	29	Dehing Saw Mills Co., Ld. ...	23rd Feb. 1889	1,00,000		.....	
88	30	Calcutta Central Press Co., Ld. ...	21st April 1865	75,000	70,700	30th April 1888	
		Total ...		2,35,95,000	1,08,64,850		

PLANTING COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	When registered.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
89	1	Bengal Tea Co, Ld.	23rd Nov. 1859	10,00,000	9,48,520	31st Dec. 1888.	
90	2	Balasun Tea Co, Ld	21st Feb. 1860	2,00,000	2,00,000	31st ,, ,,	
91	3	East India Tea Co., Ld.	7th Aug. 1861	10,00,000	10,00,000	31st ,, ,,	
92	4	Kunchanpore Tea Co, Ld.	13th Nov. ,,	5,00,000	4,56,000	31st ,, ,,	
93	5	Sylhet Tea Co., Ld.	18th Dec. ,,	1,50,000	1,49,033	1st Jan. 1889.	
94	6	Ramgurh Co, Ld.	13th May 1862	10,00,000	4,25,000	31st Dec. 1888.	
95	7	Seom Tea Co, Ld. ..	20th Nov. ,,	3,00,000	3,00,000	31st ,, ,,	
96	8	Punkhabarie Tea Co., Ld. . ..	9th Mar. 1863	2,50,000	2,18,342	31st ,, ,,	
97	9	Dehra Doon Tea Co, Ld. ..	31st ,, ,,	20,00,000	8,78,000	31st ,, ,,	
98	10	Central Cachar Tea Co, Ld. ...	2nd May ,,	10,00,000	10,00,000	31st ,, ,,	
99	11	Bishnauth Tea Co., Ld. . ..	6th ,, ,,	11,00,000	8,25,000	31st ,, ,,	
100	12	Eastern Cachar Tea Co., Ld. ...	15th July ,,	7,00,000	7,00,000	31st ,, 1887.	
101	13	Kurseong and Darjeeling Tea Co, Ld.	12th Dec. ,,	8,00,000	6,54,300	31st ,, 1888.	
102	14	Durrung Tea Co., Ld.	4th Jan. 1864	5,00,000	4,65,000	31st ,, 1887	
103	15	Mona Chera Tea Co., Ld. ...	30th ,, ,,	8,00,000	7,29,150	31st ,, 1888.	
104	16	Tukvar Co., Ld ...	20th Feb. ,,	12,00,000	7,31,300	31st ,, ,,	
105	17	Moran Tea Co., Ld.	20th July ,,	6,00,000	4,80,000	31st ,, 1887.	
106	18	Durrabhar Co., Ld.	23rd April 1866	60,000	60,000	30th Nov. ,,	
107	19	Kuttal Tea Co. Ld.	24th Jan. 1867	1,00,000	1,00,000	31st Dec. 1888.	
108	20	Chandypore Tea Co., Ld.	8th Aug. ,,	2,50,000	2,50,000	31st ,, ,,	
109	21	New Mutual Tea Co, Ld.	15th ,, 1868	1,20,000	1,17,750	31st ,, ,,	
110	22	Arouttepore Tea Co, Ld.	19th Jan. 1869	3,00,000	3,00,000	31st ,, ,,	
111	23	Cutlachera Co., Ld.	30th May 1871	2,70,000	2,50,000	31st ,, ,,	
112	24	Singell Tea Co, Ld.	15th Nov. ,,	6,25,000	6,25,000	31st ,, ,,	
113	25	Indian Terai Tea Co., Ld.	4th Dec. ,,	1,50,000	1,50,000	31st ,, ,,	
114	26	Majagram Tea Co, Ld	27th Jan. 1872	2,00,000	1,75,000	31st ,, ,,	
115	27	Hoolungooree Tea Co., Ld. ...	23rd Mar. ,,	4,00,000	4,00,000	31st ,, ,,	
116	28	Central Terai Tea Co, Ld.	4th April ,,	4,00,000	4,00,000	31st ,, ,,	
117	29	Dessai and Parbuttiah Tea Co., Ld.	15th July 1872	1,80,000	1,80,000	31st ,, ,,	
118	30	Cocheela Tea Co, Ld. . ..	17th Jan. 1873	3,00,000	2,68,675	31st ,, ,,	
119	31	Holta Tea Co., Ld.	27th Feb. ,,	3,50,000	3,50,000	31st ,, ,,	
120	32	Kalacherra Tea Co., Ld.	23rd July ,,	2,75,000	2,75,000	31st ,, ,,	
121	33	Singbulli and Murmah Tea Co, Ld.	26th Nov. ,,	4,00,000	3,00,000	31st ,, ,,	
122	34	Puttareah Tea Co, Ld.	31st Dec. ,,	2,00,000	2,00,000	31st ,, ,,	
123	35	Springside Tea Co., Ld.	10th Jan. 1874	1,68,000	1,68,000	31st ,, ,,	
124	36	Mothola Co, Ld	5th March ,,	1,50,000	1,38,000	31st ,, ,,	
125	37	Teendarrea Co, Ld.	28th July ,,	1,35,000	1,35,000	31st ,, ,,	
126	38	Joonktollee Tea Co., Ld.	7th Aug. ,,	80,000	80,000	31st ,, ,,	
127	39	Burkhola Tea Co., Ld.	1st Sept. ,,	2,70,000	2,70,000	31st ,, ,,	
128	40	Tingling Tea Co, Ld	15th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
129	41	Phœnix Tea Co. (of Cachar) Ld., ...	9th Oct. ,,	6,25,000	5,35,000	31st ,, ,,	
130	42	Chotanagpore Tea Co., Ld. . .	27th Nov. ,,	2,50,000	2,50,000	31st ,, 1887.	
131	43	Lackatoorah Tea Co, Ld. . ..	5th Dec. ,,	2,25,000	2,25,000	31st ,, 1888.	
132	44	Second Mutual Tea Co., Ld	26th Feb. 1875	2,35,500	2,03,000	31st ,, ,,	
133	45	Mim Tea Co, Ld.	6th March ,,	1,60,000	1,59,000	31st ,, ,,	
134	46	Geille Tea Co, Ld.	20th ,, ,,	5,00,000	4,00,000	31st ,, ,,	
135	47	Hoolmaree Tea Co, Ld.	25th ,, ,,	1,20,000	1,20,000	31st ,, ,,	
136	48	Sapakati Tea Co., Ld.	1st May ,,	88,000	88,000	31st ,, ,,	
137	49	Rajabaree Tea Co., Ld.	5th ,, ,,	2,00,000	2,00,000	31st ,, ,,	
138	50	Grob Tea Co., Ld. .	21st June ,,	6,00,000	5,00,000	31st ,, ,,	
139	51	North-Western Cachar Tea Co, Ld.	25th Jan. 1876	2,76,000	2,76,000	31st ,, ,,	
140	52	Runglee Rungliot Tea Co., Ld. .	21st Feb. ,,	1,40,000	1,40,000	31st ,, ,,	
141	53	Amlucki Tea Co, Ld.	25th July ,,	4,46,500	4,45,700	31st ,, ,,	
142	54	Cachar Native Joint Stock Co., Ld.	31st Aug. ,,	1,00,000	53,675	31st ,, ,,	
143	55	Teesta Valley Tea Co, Ld. ...	20th Nov. ,,	3,50,000	3,20,000	.....	
144	56	Dehing Co., Ld	5th Jan. 1877	10,00,000	9,00,000	31st Dec. 1888	
145	57	Dhunsiri Tea Co., Ld. ..	23rd March ,,	1,60,000	1,60,000	31st ,, ,,	
146	58	Good Hope Tea Co, Ld. ..	2nd May ,,	1,15,000	1,00,000	31st ,, ,,	
147	59	Hatewar Tea Co., Ld. .. .	16th July ,,	56,000	56,000	31st ,, 1887	
148	60	Singtom Tea Co., Ld. . ..	10th Jan. 1878	1,60,000	1,60,000	31st ,, 1888	
149	61	Bahadurpore Tea Co., Ld.	19th March ,,	20,000	17,689	31st ,, 1887	
150	62	Hindoo Tea Co., Ld.	12th July ,,	35,000	24,500	31st ,, 1888	
151	63	Loobah Tea Co., Ld.	27th Sept. ,,	5,00,000	5,00,000	31st ,, ,,	
152	64	Longview Tea Co., Ld.	16th Jan. 1879	3,44,000	3,44,000	31st ,, ,,	
153	65	Darjeeling Tea and Cinchona Association, Ld. . ..	16th ,, ,,	2,00,000	2,00,000	31st ,, 1887	

Serial number.	Number.	NAME OF COMPANIES.	When registered.	Nominal capital.	Paid up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
154	66	Kettela Tea Co., Ld.	25th March 1879	1,50,000	1,50,000	31st Dec. 1888	
155	67	Munjha Tea Co., Ld.	10th April ,,	1,50,000	1,50,000	31st ,, ,,	
156	68	Jalpiguri Tea Co., Ld.	29th May ,,	50,000	50,000	31st ,, ,,	
157	69	Washabarie Tea Co., Ld.	8th Aug. ,,	1,50,000	1,50,000	31st ,, ,,	
158	70	Karnafulli Association, Ld.... ...	5th Feb. 1880	3,60,000	2,43,600	31st ,, 1887	
159	71	Nahartoli Tea Co., Ld.	14th ,, ,,	1,60,000	1,40,500	31st ,, ,,	
160	72	Rungtong Tea Co., Ld.	7th ,, 1881	3,00,000	2,00,000	31st ,, 1888	
161	73	Sungma Tea Co., Ld.	30th March ,,	1,30,000	1,17,000	31st ,, ,,	
162	74	Khobong Tea Co., Ld.	12th April ,,	3,25,000	3,25,000	21st ,, ,,	
163	75	Chenga Tea Co. Ld.	27th July ,,	1,50,000	1,50,000	31st ,, 1887	
164	76	Rungamattee Tea Co., Ld.	15th Feb. 1882	3,50,000	3,50,000	31st ,, ,,	
165	77	Lower Darjeeling Tea Co., Ld. ...	24th ,, ,,	1,10,000	1,10,000	31st ,, 1888	
166	78	Baintbaree Tea Co., Ld.	14th March ,,	1,60,000	1,60,000	31st ,, ,,	
167	79	Tingri Tea Co., Ld.	21st ,, ,,	5,00,000	5,00,000	31st ,, ,,	
168	80	Jingiam Tea Co., Ld.	22nd March 1882	1,60,000	1,60,000	31st ,, ,,	
169	81	Ellenbaree Tea Co., Ld.	25th April ,,	1,50,000	1,50,000	31st ,, ,,	
170	82	Mesai Tea Co., Ld.	5th July ,,	2,50,000	2,50,000	30th Nov. ,,	
171	83	Pashok Tea Co., Ld.	5th Sept. ,,	2,50,000	2,20,000	31st Dec. 1887	
172	84	Northern Bengal Tea Corptn., Ld.	28th ,, ,,	1,00,000	85,400	31st ,, 1888	
173	85	Gurjang Jhora Tea Co., Ld. ...	2nd Dec. ,,	50,000	50,000	31st ,, ,,	
174	86	Phoolbarie Tea Co., Ld.	20th ,, ,,	5,12,000	5,12,000	31st ,, ,,	
175	87	Bagracote Tea Co., Ld.	17th Feb. 1883	4,00,000	4,00,000	31st ,, ,,	
176	88	Baintgooree Tea Co. (Dooars) Ld.	19th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
177	89	Needeem Tea Co., Ld.	1st Mar. ,,	3,00,000	3,00,000	31st ,, ,,	
178	90	Borpukuri Tea Co., Ld.	11th July ,,	1,50,000	1,50,000	31st ,, ,,	
179	91	Gyabaree Tea Co., Ld.	12th ,, ,,	2,00,000	1,26,230	31st ,, ,,	
180	92	Second Fallodhi Tea Co., Ld. ...	12th ,, ,,	2,00,000	2,00,000	31st ,, ,,	
181	93	Mohurgong Tea Co., Ld.	9th Aug. ,,	1,60,000	1,60,000	31st ,, ,,	
182	94	Bargong Tea Co., Ld.	28th Nov. ,,	1,50,000	1,45,500	31st ,, ,,	
183	95	Matelli Tea Co., Ld.	27th Mar. 1884	2,00,000	2,00,000	31st ,, ,,	
184	96	Kaliti Tea Co., Ld.	28th May ,,	80,000	80,000	31st ,, 1887	
185	97	Selim Tea Co., Ld.	18th July ,,	15,00,000	9,50,500	31st ,, ,,	
186	98	Tezpore and Gogra Tea Co., Ld. ...	19th ,, ,,	6,50,000	5,98,800	31st ,, 1888	
187	99	Iringmarah Tea Co., Ld.	14th Aug. ,,	1,00,000	1,00,000	31st ,, 1887	
188	100	Manabarie Tea Co., Ld.	3rd Jan. 1885	1,50,000	1,50,000	31st ,, 1888	
189	101	Nagadhoolie Tea Co., Ld.	10th Feb. ,,	1,76,000	1,76,000	31st ,, 1887	
190	102	Hope Town Tea Co., Ld.	23rd Feb. ,,	1,00,000	1,00,000	31st ,, 1888	
191	103	Hope Tea Co., Ld.	21st Mar. ,,	3,60,000	3,60,000	31st ,, ,,	
192	104	Arya Tea Co., Ld.	16th May 1885	36,575	31,586	31st ,, ,,	
193	105	New Cinnatolliah Tea Co., Ld. ...	26th ,, ,,	10,000	10,000	31st ,, ,,	
194	106	Mandakata Tea Co., Ld.	22nd Dec. ,,	2,00,000	2,00,000	31st ,, ,,	
195	107	Chincoorie Tea Co., Ld.	22nd ,, ,,	2,00,000	2,00,000	31st ,, ,,	
196	108	Killcott Tea Co., Ld.	29th ,, ,,	2,00,000	2,00,000	31st ,, ,,	
197	109	Chulsa Tea Co. (Dooars), Ld. ...	5th Jan. 1886	3,50,000	3,50,000	31st ,, ,,	
198	110	Zurantee Tea Co. (Dooars), Ld. ...	5th ,, ,,	1,60,000	1,60,000	31st ,, ,,	
199	111	Kallinuggor and Khoreel Tea Co., Ld.	16th ,, ,,	3,00,000	3,00,000	31st ,, ,,	
200	112	Banockburn Tea Co., Ld.	20th Feb. ,,	2,00,000	2,00,000	31st ,, ,,	
201	113	Jaipur Tea Estate, Ld.	18th Mar. ,,	2,00,000	2,00,000	31st ,, 1887	
202	114	Shakomato Tea Co., Ld.	26th June ,,	2,50,000	2,50,000	31st ,, 1888	
203	115	Singlo Tea Co., Ld. ...	8th July ,,	12,00,000	12,00,000	31st ,, ,,	
204	116	Chapaguri Tea Co., Ld.	12th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
205	117	Chaloum Tea Co., Ld.	29th ,, ,,	1,20,000	96,000	31st ,, ,,	
206	118	Jetinga Valley Tea Co., Ld. ...	25th Feb. 1888	3,00,000	3,00,000	31st ,, ,,	
207	119	Okayti Tea Co., Ld.	5th June ,,	2,00,000	59,600	31st ,, ,,	
208	120	New Glencoe Tea Co., Ld.	17th July ,,	1,80,000	.....	......	
209	121	Carron Tea Co., Ld.	2nd Aug. ,,	1,50,000	. .	.....	
210	122	Nagaisuree Tea Co., Ld.	23rd ,, ,,	2,40,000	.....	.....	
211	123	Gungaram Tea Co., Ld.	27th Sept. ,,	1,00,000	.....	.....	
212	124	Kamai Tea Co., Ld.	7th Nov. ,,	2,00,000	.....	.....	
213	125	Huldibari Tea Association, Ld. ...	27th Mar. 1889	3,00,000	......	......	
214	126	Sath Bhaia Tea Co., Ld.	27th ,, ,,	1,00,000	......	......	
215	127	Sylhet Cultivating Co., Ld. ...	29th June 1875	20,000	17,275	12th April 1887	
				4,04,88,575	3,44,38,175		

MINING COMPANIES.

Serial number.	Number.	Name of Companies.	When registered.	Nominal capital.	Paid up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
216	1	Bengal Coal Co., Ld.	24th July 1858 ...	24,00,000	24,00,000	31st Oct. 1887 ...	
217	2	Equitable Tea Co., Ld.	1st August 1863 ...	8,00,000	8,00,000	31st Dec. 1888 ..	
218	3	Raneegunge Coal Association, Ld. ...	8th April 1873 ...	9,00,000	8,25,000	31st Mar. ,, .	
219	4	New Beerbhoom Coal Co., Ld. ...	16th May ,, ...	7,20,000	7,20,000	31st Oct. ,, ...	
220	5	Burrakur Coal Co., Ld.	19th June 1875 ...	1,50,000	1,50,000	31st May ,, .	
221	6	Alipur Coal Co., Ld.	3rd March 1882 ...	3,00,000	3,00,000	30th Nov. ,, ...	
222	7	Sherghur Co., Ld.	14th Dec. 1886 ...	10,000	.	.....	
223	8	Rajmahal Stone Co., Ld.	30th June 1876 ...	2,50,000	2,50,000	31st Dec. 1887 ...	
224	9	Bengal Stone Co., Ld.	15th Feb. 1879 ...	80,000	80,000	31st ,, 1888 .	
225	10	Indian Patent Stone Co., Ld.	8th May 1888 ...	57,000	......	......	
226	11	Arracan Petroleum Oil Co., Ld. ...	14th July 1883 ...	4,00,000	3,66,830	31st Dec. 1887	
				60,67,000	58,91,830		

ICE MANUFACTURING COMPANIES.

Serial number.	Number.	Name of Companies.	When registered.	Nominal capital.	Paid up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
227	1	Bengal Ice Manufacturing Co., Ld.	9th July 1878	5,00,000	4,95,000	31st Dec. 1888	
228	2	Jamalpore Ice Manufacturing Co., Ld.	28th May 1879	10,000	7,120	31st ,, 1887	
229	3	Crystal Ice Supply Co., Ld.	14th Aug. 1883	2,00,000	2,00,000	31st ,, 1888	
				7,10,000	7,02,120		

SUGAR MANUFACTURING COMPANY.

Serial number.	Number.	Name of Companies.	When registered.	Nominal capital.	Paid up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
230	1	Carew and Co., Ld.	11th June 1875	16,00,000	16,00,000	31st Dec. 1888	

OTHER COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	When registered.	Nominal capital.	Paid up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
231	1	Kanknarrah Lime Factory Co., Ld.	6th June 1879	10,000	9,320	30th June 1888	
232	2	Bengal Telephone Co., Ld.	14th March 1883	10,00,000	8,79,580	31st Dec. "	
233	3	Goyana Boat Co., Ld. ...	1st July 1885	20,000	... ..		
234	4	Bengal Science and Art Union, Ld.	5th Aug. 1887	1,50,000	2,900	30th April "	
235	5	East India Trade and Outfit Co., Ld.	10th July 1887	... ..	...	......	Guaranteed.
				11,80,000	8,91,800		

NATURE OF COMPANIES.	Number.	Nominal capital.	Paid up capital.
		Rs.	Rs.
I.—Banking and Insurance Companies	25	2,30,60,000	1,79,53,607
II.—Trading Companies	33	1,93,73,000	1,64,44,686
III.—Mills and Presses	30	2,35,95 000	1,98,64,850
IV.—Planting Companies	127	4,04,88,575	3,44,38,175
V.—Mining Companies	11	60,67,000	58,91,830
VI.—Ice Manufacturing Companies	3	7,10,000	7,02,120
VII.—Sugar Manufacturing Company	1	16,00,000	16,00,000
VIII.—Other Companies	5	11,80,000	8,91,800
Total ...	235	11,60,73,575	9,77,87,168

P. GHOSHA,
Registrar of Companies under Act VI of 1882.

CALCUTTA,
The 14*th May* 1889.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government, during the week ending the 15th June 1889

Division	No.	District and date of return.	Rainfall as Sadder Station in inches.	Character of the weather and state and prospects of the crops.
		BENGAL.		
		Western Districts.		
Burdwan Divn.	1	Burdwan June 15, '89	2·56	Monsoon weather. Ploughings and sowings going on briskly. Prices of rice from 14½ seers per rupee at Raniganj to 16½ seers at Sudder.
		Culna ...	3·67	
		Cutwa ...	0·67	
		Raneegunge ...	0·16	
	2	Baukoora „ 15, '89	0·31	Weather—seasonable. Ploughing and sowing of land still going on. Sugarcane coming on well. More rain is wanted. Common rice 17¼ seers per rupee at Suddor and 18 seers at Bissenpore.
	3	Birbhum „ 15, '89	3·13	Weather—seasonable. Rice is now being sown everywhere in the district. Prospects so far excellent. Prices have a tendency to fall. Common rice at Rampore Hât is now 14 seers per rupee; at Soory 13½ seers, but with signs of falling.
		Rampur Hât ...	3·40	
	4	Midnapur „ 15, '89	2·68	The rainfall in the head-quarters sub-division has been amply sufficient for all purposes. In the other sub-divisions it has been less than an inch, and in Tumluk only ·20 is reported. Good progress has been made in the head-quarters sub-division with ploughing and sowing. In Tumluk these operations are rather retarded for want of rain. The other two sub-divisions will do for the present. The prospects of indigo have much improved. The price of rice has not been affected yet. Prices are— Rs. A. P. Sudder ... ... 2 9 3 Contai ... ... 2 10 0 Tumluk ... ... 3 0 0 Ghatal ... ... 2 8 0 } per maund.
	5	Hooghly „ 15, '89	1·46	Much rain has fallen; temperature decreased. *Aus* and *amun* sowings in progress. Rice is springing up, and affairs are assuming a normal appearance. Rice at Sudder and Serampore 12 seers per rupee, and at Jehanabad 16 seers.
		Serampore ..	0·21	
		Jehanabad .	4·59	
		Howrah „ 17, '89	3·07	Rains have broken: weather showery and steamy alternately. Prospects of crops good. *Amun* and *aus* being sown. Prices rising owing to want of rain, which has come at last.
		Central Districts.		
Presidency Divn.	6	24-Perghs. June 18, '89	2·13	Weather—rainy. There has been general rain during the week, and agricultural operations can now proceed briskly. The rice and jute, which have been sown, have come up well, and are looking very healthy. Prospects generally have much improved. Prices show some tendency to fall.
	7	Nuddea „ 15, '89	4 18	Weather—seasonable. Late rain has done much good to the crops. *Aus dhan* is germinating. Indigo, jute, and sugarcane looking well.
		Kooshtea ...	6·67	
		Meherpur ...	5·12	
		Chooadanga ...	4·45	
		Ranaghat ...	4·78	
	8	Khoolna „ 15, '89	2 26	Weather—hot and cloudy. The rainfall of this week has improved the prospects of the *aus* and *amun* crops. Seedlings are being grown for transplantation.
		Bagirhat .	3·76	
		Satkhira .	0 97	
	9	Jessore „ 15, '89	6 70	Weather—cloudy and rainy, but still hot. Heavy rain during the week has been beneficial to the standing crops. Prices stationary.
		Jhenidah ..	1·88	
		Magura .	4 76	
		Narail ...	2·43	
		Bongong ...	2 66	
	10	Moorshedabad „ 15, '89	2 64	Weather—hot and close with a little rain. Both *bhadoi* and *amun* are still being sown. Those that were sown before have come up and thriving.
		Lalbagh ...	1·68	
		Kandi ...	5·20	
		Jungipore	1 54	
Rajshahye Divn.	11	Dinagepur „ 15, '89	7·92	Weather—rainy. The late heavy rain has done much good, but there is some risk of the young rice seedlings now being choked with weeds unless there is a spell of fine weather. Extent of *bhadoi* rice sowings about ⅞ths of the normal area and of jute ⅞ths.
		Thakurgaon ...	11·51	
	12	Rajshahye „ 15, '89	5·44	Weather—close, with much less wind than in last week. The heavy rain has been beneficial to cultivation and growth of *til*, paddy, jute and rice. Sowings continue. *Boro* harvest still going on.
		Nattore ...	14 58	
		Nowgong ...	7 23	
	13	Rungpore „ 15, '89	5·01	Weather—sultry with frequent bursts of rain. All crops have greatly benefited by the heavy rainfall, and the prospects nearly everywhere are most favourable. The cutting of *aus* paddy has commenced, and *amun* paddy is being planted out. Jute and sugarcane are thriving.
		Gaibanda ...	9 94	
		Kurigram ...	7·90	
		Nilphamari ...	8·34	
	14	Bogra „ 15, '89	8 60	Weather—rains apparently set in. The crops have been improved by the rain, but it was untimely, and the prospects are not good. *Amun* rice is being sown, and *til* is being cut, in some places. Common rice selling at 15 seers a rupee.
		Sherpore ...	8·97	
		Nowkhilla ..	10·51	
	15	Pubna „ 15, '89	9·30	Weather—cloudy and wet. Owing to ample rainfall, *aus* and *amun* rice and jute and sugarcane are doing much better. Prospects in the Serajgunge sub-division are good and in the Sudder sub-division fair.
	16	Darjeeling „ 15, '89	7·94	Weather—rainy and foggy. Crops doing well both in hills and plains. Potatoes progressing favourably. Sowings of *bhadoi* and jute finished in Terai. About 6 annas of land for the *haimanti* have been cultivated. Recent rain has done much good
	17	Julpigoree „ 15, '89	7·61	Weather—cloudy in the early part of the week, but hot in the latter part. Prospects of crops fair. Jute injured by hailstones in some parts of the district. Lands are being prepared for *haimanti* rice. Common rice sells at 17 seers per rupee.
		Eastern Districts.		
Dacca Divn.	18	Dacca June 15, '89	5·95	Weather—cloudy and rainy. Jute and paddy crops are coming up well. Damage is anticipated to *amun* and *aus* paddy in low lands owing to too rapid rise of the rivers. No special change in the prices of food-grains. Fodder is available.
	19	Furreedpore „ 15, '89	6·13	Weather—seasonable. Prospects improved owing to recent rain. All crops doing well in the Goalundo sub-division, but in other parts of the district the low land rice will suffer from the rise of the rivers. Price of rice stationary.
	20	Backergunge „ 15, '89	3·38	Weather—seasonable. Prospects of crops good.
	21	Mymensingh „ 15, '89	11·67	Weather—cloudy and rainy. Jute, *aus* and *amun* crops are good. *Til* is being harvested.

Division	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*					
		Eastern Districts—concld.			
CHITTAGONG DIVN.	22	Chittagong	June 15, '89	6·61	Weather—cool on account of showers of rain. Prospect of *aus* better than last week. Prices continue high.
	23	Noakholly	„ 15, '89	9·92	Weather—rainy and cloudy. Sowing of *amun* continues. Rain has much improved the prospects of the standing crops. Price of rice has risen to 11 seers per rupee at Sudder and 12 seers at Fenny sub-division.
	24	Tipperah	„ 15, '89	3·24	Weather—seasonable. Rain nearly every day. The rain has done much good to rice and jute, which are thriving and growing vigorously. Chillies are being reaped.
	25	Chittagong Hill Tracts.	„ 14, 86	4·90	Weather—excessively hot and cloudy throughout the week. Heavy showers of rain from the 10th instant. Rain during the week has considerably improved the condition of *jum* paddy and cotton. The hill people expect about 10 annas outturn this year, if not injured by flood or damaged by rats.
		Hill Tipperah	„ 15, '89	3·94	Weather—unsettled; occasionally rainy. *Jum* crops doing well. Prospects of sugarcane and *aus* paddy fair.
BEHAR.					
PATNA DIVN.	26	Patna	June 15, '89	1·97	Weather—hot. Sowing of *bhadoi* and paddy is going on. *Cheena* and sugar cane doing well. Prices of food-grains stationary.
		Barh	...	0·31	
	27	Gya	„ 15, '89	2·18	Weather—sometimes cloudy, but hot. Lands are begun to be cultivated for *bhadoi* crops. *Makai* and *marwa* are being sown in some places.
	28	Shahabad	„ 15, '89	1·44	Weather—temperature much below normal during earlier part of the week, but getting very hot again. Clouds still hang about. The recent rain has done good to sugarcane, and will allow the ryots to prepare their lands for *bhadoi* crops. No other crop on the ground except garden produce. Prices stationary. Markets well supplied.
		Buxar	...	3·54	
		Sasseram	...	Nil	
		Bhabuah	...	0·50	
	29	Durbhunga	„ 15, '89	2·16	Weather—cloudy; slight showers fell in the north-west of the Madhubani sub-division, and heavier rain in other parts of the district. The rainfall of the week has facilitated the sowing of *bhadoi* except in places to the north-west of the Madhubani sub-division, where there have been light showers. More rain is wanted. *Mung* is being harvested, and the average outturn is estimated at three annas in Madhubani and eight annas in the rest of the district. Indigo is promising.
		Madhubani	...	0·72	
		Tajpur	...	1·64	
	30	Mozufferpur	„ 15, '89	0·88	Weather—cloudy; occasional storms; very little rain. Rice, *mung*, *makai*, and *marwa* are being sown. The rice previously sown in low lands is suffering for want of rain, which indeed is required everywhere.
		Hajipur	...	0·43	
		Sitamarhi	...	0·14	
	31	Sarun	„ 15, '89	0 82	Weather—hot and close. Rainfall very capriciously distributed. *Cheena* a good crop. Indigo fair. *Bhadoi* sowings continue.
	32	Chumparun	„ 15, '89	0·49	Weather—hot with passing clouds and variable winds during the week. To-day (15th) the monsoon appears to have set in. *Bhadoi* and *aghani* sowings progressing; the rainfall of to-day (15th) will facilitate them. Prices of rice and wheat have fallen slightly both at Motihari and Bettiah.
BHAGULPORE DIVN.	33	Monghyr	„ 15, '89	1·52	Weather—hot and mostly cloudy with occasional showers. The rain has done good, but more is wanted. Ploughing and sowing of *bhadoi* going on. Prices stationary.
		Beguserai	...	0·02	
		Jamooe	...	0·42	
	34	Bhagulpore	„ 15, '89	6·07	Weather—cooler with frequent storms. The rain has been unevenly distributed, but everywhere sufficient for *bhadoi* sowings, which are being pushed on. Seed beds for late rice are being prepared. Prospects more hopeful, but prices keep up.
		Banka	...	3·60	
		Madhepurah	...	7·10	
		Soopool	..	1·25	
	35	Purneah	„ 15, '89	3·61	Weather—seasonable. Rain almost every day now. Great good has been done to the crops by the late rain, and agricultural operations are much facilitated.
		Kissengunge	...	10·87	
		Arrareah	...	9·75	
	36	Maldah	„ 15, '89	2·23	Weather—hot and cloudy with occasional showers preceded at times by high winds. On the 12th there was a heavy and general downpour which lowered the temperature and thoroughly soaked the ground. The rain was general throughout the district. The present state of the jute crop is fair. The other standing crops are also doing well. Sowings of *bhadoi* and winter rice crops are pushed on. Coarse rice selling at 13 seers a rupee in the Sudder, but in the interior the price varies from 12 to 15 seers a rupee.
		Chanchal	...	1·11	
		Shibgunge	...	2·96	
		Gajole	...	1·39	
	37	Sonthal Perghs.	„ 15, '89	2·89	Weather—wet in the early part of the week, but cloudy and close in the latter part. Rain will enable the cultivators to sow both *dhan* and *makai*. All are busily at work. No change in prices, and no reports yet on the effect of the rain on the relief-works.
		Deoghur	...	1·35	
		Godda	...	12·32	
		Jamtara	...	1·17	
		Pakour	...	2 14	
		Rajmehal	...	3·29	
ORISSA.					
ORISSA DIVN.	38	Cuttack	June 15, '89	4·60	Weather—cloudy. Sowing of *sarad* and *beali* rice going on briskly. Copious rain fell this week to the great benefit of the rice crops. Price of rice stationary.
	39	Pooree ...	...	......	Report not received.
	40	Balasore	„ 15, '89	1·87	Weather—seasonable. Prospects good in Bhudruck. More rain still wanted in the north of the district. Sowings of rice general everywhere. Prices stationary.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
CHOTA NAGPORE.					
		South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41	Hazaribagh	June 15, '89	2·26	Weather—cloudy. Rain has fallen all over the district. Ploughing and sowing in full swing. Prospects of sugarcane improved by the rain.
	42	Lohardugga	" 15, '89	2 18	Weather—cool. Rain almost throughout the head-quarters sub-division. Sowing of early paddy is going on, and land is being prepared for low-land paddy. Both paddy and *goondli* are being sown in some places in the Palamow sub-division. Prices as before.
	43	Singbhoom	" 15, 89	3·15	Rain on three days of the week. It was sunny but cool in the intervals. Weather most favourable for agricultural operations Prices stationary.
	44	Manbhoom Govindpur	" 15, '89 . .	2·46 1 44	Weather—cool and cloudy with daily storms. The rains seem to have fairly set in. Ploughing is vigorously going on, and early sowings of paddy, *maize*, *goondli* and other crops are in progress. Paddy sowings so far are estimated at from 10 to 12 annas, and indigo sowings also at from 10 to 12 annas in Burrabhoom. Rice sells at from 14 to 20 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 18*th June* 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·590	29·602	—	Variable	230	93·6	10th, 12th June.	77 1	12th June	91·8	80·5	86·2	—	85·
		Gopalpore	29·586	29·636	+·040	Variable	267	92·7	8th „	81·3	9th „	91·6	84·3	88·0	+2·0	87·
		False Point	29·584	29·606	—·003	NW	254	94 5	14th „	74·1	12th „	92·1	80·0	86·1	—0·2	86·
	Cuttack	Cuttack	29·537	29·618	+·084	Calm & westerly	64	104·9	9th „	77·9	12th „	98·5	81·2	89·8	+0·5	86
	Balasore	Balasore	29·554	29 612	+·036	Variable	162·2	97·5	14th „	76·2	11th „	94 8	80·2	87·5	+0·7	85·
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·587	29 613	+·025	Variable	356·6	97·2	8th, 9th June.	80·5	11th, 12th June.	93 2	84·1	88·7	+1·6	85
	Midnapore	Midnapore	29 467	29·617	+·037	NE	273·6	103·4	9th „	71·2	9th „	97·3	79·5	89·4	—0·3	84
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·590	29 612	+·030	Variable	106·3	98·4	8th, 9th June.	74 2	14th „	93 8	78·3	86·1	+0·1	83·
	Burdwan	Burdwan	29·506	29·606	+ 023	Variable	86 7	101·2	8th „	77 4	12th, 14th, June.	95·1	79 8	87·5	—0·1	82
	Bankoora	Bankoora	29·305	29·604	+ 043	Variable	121	103·1	9th „	76·1	12th „	96 8	79·9	88 2	+0·4	83
	Beerbhoom, West Burdwan	Raneegunge	29·202	29·599	+·050	Variable	106·0	101·5	8th, 9th June.	76·8	12th „	95·8	79·2	87·5	—0·0	83
	Moorshedabad	Berhampore	29·553	29·620	+ 032	ENE	146·7	99·2	8th „	74·3	9th „	90 9	77·3	84·1	+2·3	80
	Nuddea	Krishnaghur	29·575	29·641	+·043	ESE	169 8	101 8	8th „	71·8	9th „	93 7	76 0	85 [illegible]	+0·1	82
	Jessore, Khoolna	Jessore	29·592	29 626	+·020	ESE	122 4	95·8	8th „	77·4	11th „	90 4	78 8	84 7	— 1·3	82
	Chittagong	Chittagong	29·603	29·693	+·031	S	138·0	93·7	8th „	76·5	12th, 14th June.	85 7	77 9	81·9	0	8[illegible]
	Chittagong Hill Tracts	Demagiri	Observations not received.													
East Bengal.	Backergunge	Barrisal	29·633	29 645	+ 035	SW	123·1	92·9	8th June	74·8	9th „	87·9	77 7	82 7	—0 7	81
	Noakholly	Noakholly	29·645	29 689	—	SSE	200 4	91 0	8th „	75·3	14th „	86 5	77·7	92·1	—	8[illegible]
	Furreedpore	Furreedpore	29·608	29 647	+ 035	SE	130	94 0	8th „	75·9	10th to 12th June.	88 4	77·5	83·0	—0·4	8[illegible]
	Dacca	Dacca	29 624	29·647	+ 023	ESE	113 1	92·1	8th, 9th June.	76 2	11th „	87·2	77 6	82 4	—1·8	7[illegible]
	Tipperah	Commillah	29 630	29·660	+ 031	South-easterly.	122·6	91·3	8th, 9th June.	75 8	14th „	8[illegible]·4	77 2	82 3	—0 6	8
	Mymensingh	Mymensingh	29·60	29·659	+·032	E	157 9	88·8	8th „	75 6	8th „	84 0	75·1	79·6	—3·3	7
North Bengal.	Bogra	Bogra	29 561	29·624	+·039	North-easterly.	138 7	93 3	8th „	73 8	8th, 9th June	84·4	75 4	80 0	—5·1	7[illegible]
	Pubna	Serajgunge	29·595	29 612	+ 039	E	108·6	92 1	8th „	74 7	8th „	85 8	75·8	80 8	—2·7	7
	Rajshahye	Rampore Beauleah.	29 559	29 629	+ 05[illegible]	Variable	147 3	99·3	8th „	72·7	9th „	88·1	76 0	82·1	—2·9	7
	Maldah	Maldah	29 547	29·625	—	NE	52·0	100·0	8th „	74 3	9th „	95·4	76·5	86·0	—	8
	Dinagepore	Dinagepore	29 531	29·652	+ 062	NE	136	89·1	10th, 14th June.	71·6	8th „	84·7	75 0	7[illegible] 9	—3·9	7
	Rungpore	Rungpore	29 555	29 679	+ 045	NE	1[illegible]9 6	90 3	10th „	72·2	8th „	86 0	74 3	80·6	—2·8	7
	Julpigoree, Cooch Behar	Julpigoree	29·385	29 672	+ 042	E	19 6	91·5	14th „	67·3	8th „	87 6	70 2	78·9	—3·3	7
	Darjeeling Hill Tracts	Darjeeling	22 888	—	+·014	Variable	128 0	66·6	10th „	53 6	10th, 12th June.	62 7	54·5	58·7	—1·6	[illegible]
North Behar.	Purneah, North Bhagulpore	Purneah	29 507	29 634	+·014	Calm	32·1	96·2	9th „	72·4	9th „	90 9	75·9	83·5	—2·7	7
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29 466	29 633	+·053	ESE	177	97 4	9th June	76·6	9th, 11th June.	92 5	79·3	85 8	—1·6	[illegible]
	Chumparun	Motihari	29·404	29 632	+ 064	EsE	261	100·8	8th „	71·8	9th „	93·9	76·2	85·0	—2·0	[illegible]
	Sarun	Chupra	29·415	29 610	+·042	E	148·5	103 8	9th „	74 6	11th „	95·4	78·3	86·9	—3·2	[illegible]
South Behar.	Shahabad	Dehree	29 253	29 603	+·054	E	297 4	111·4	8th, 9th June.	74 5	12th „	101·3	80 8	91·1	—0·7	[illegible]
		Buxar	29·365	29 607	+ 051	SE	219 5	105 4	9th „	72 8	10th „	95 8	79 0	87·4	—5·0	[illegible]
		Arrah	29 422	29 619	+ 069	E	120 7	104 9	9th „	73 [illegible]	11th „	95·2	78 8	87 0	—4·3	[illegible]
	Gya	Gya	29·235	29 610	+ 056	ENE	146 3	111·1	8th „	78·8	11th, 12th June.	100 8	82·5	91 7	—0·3	
	Patna	Bankipore	29·430	29 614	+·018	E	155·3	103·5	8th „	77·2	12th „	95·3	79 4	87·4	—3·4	
	South Bhagulpore, Monghyr	Bhagulpore	29·451	29·614	+·047	E	114	100·3	8th „	75·2	9th „	89 4	77 0	83·2	—3·4	
Chota Nagpore.	Sonthal Pergunnahs	Doomka	29·113	29 607	—	Variable	315·3	99·0	8th „	74 6	12th „	91 2	75·3	84·8	—	
	Hazaribagh	Hazaribagh	27·629	29 609	+ 039	SE	239·3	105 5	8th „	78·6	11th „	94·7	76·0	85 4	—1·1	
	Lohardugga, Manbhoom	Ranchee	27·607	29 601	+·079	Variable	158·5	104·5	9th „	69·9	12th „	94 2	74·7	84·5	—7·0	
	Singbhoom	Chyebassa	28 848	29·603	—	Variable	81·5	104·2	9th „	74·7	11th „	98 3	79·2	88·8	—	
Assam.	Assam	Sibsagur	29·400	29·736	+·063	NE		89·6	14th „	74·0	8th „	86·8	76 5	81·6	—1·7	
		Dhubri	29·551	29·670	+·044	ENE	238·9	85 7	11th, 14th June.	72·8	8th, 9th June.	82·3	74·8	78·5	—4·1	
		Silchar	29·594	29·699	+·037	ENE	54·9	91·0	8th „	74·3	8th „	85·7	75·7	80·7	—3·3	

Explanation.—Summary. The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten ye[illegible]
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The num[illegible] are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past [illegible] stations in the district sending in returns divided by the number of stations. A rainy days is one on which at least hundredth of an inch fell.

for the week ending Friday, the 14th of June 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
84	7·4	2·30		1·36		2·39			4·11			2·6	Pooree	Pooree	Orissa.
76	4·0	0·59											Gopalpore		
88	8·0	3·90											False Point		
75	7·0	2·89		1·52		2·61			4·70			2·5	Cuttack	Cuttack	
84	2·6	2·07	1·97	1·49	2·86	2·71	+0·15	6·22	5·25	+0·97	2·8	2·5	Balasore	Balasore	
84	9·0	1·70	1·36	2·08	1·53	3·69	−2·16	4·53	5·96	−1·43	3·0	3·0	Saugor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
80	3·1	2·93	1·96	1·87	2·40	3·90	−1·50	4·92	6·03	−1·11	3·3	2·4	Midnapore	Midnapore	
85	7·3	2·18	2·32	2·19	3·23	4·36	−1·13	5·28	6·99	−1·71	4·7	3·4	Calcutta	24-Pergunnahs Howrah Hooghly	
82	8·6	2·50	2·41	2·13	3·72	4·01	−0·29	6·71	6·63	+0·08	5·3	2·8	Burdwan	Burdwan	
81	4·9	0·31	2·97	1·57	3·83	3·48	+0·35	6·90	5·55	+1·35	3·5	2·9	Bankoora	Bankoora	
80	6·3	0·16	2·10	2·25	3·14	3·70	−0·56	7·43	5·68	+1·75	2·5	2·8	Raneegunge	Beerbhoom West Burdwan	
91	9·2	2·37	2·40	1·51	3·21	3·32	−0·11	8·08	6·43	+1·65	4·2	2·5	Berhampore	Moorshedabad	
86	8·3	4·24	4·85	2·08	5·63	5·02	−0·61	7·17	8·54	−1·37	4·6	2·7	Krishnaghur	Nuddea	
92	9·4	5·43	2·94	3·24	4·94	5·69	−0·75	6·52	8·97	−2·45	4·9	3·3	Jessore	Jessore Khoolna	
88	9·6	5·48	8·39	6·99	10·96	12·26	−1·30	12·41	17·51	−5·10	5·0	5·0	Chittagong	Chittagong	
				4·60		8·99			13·26			4·9	Demagiri	Chittagong Hill Tracts	East Bengal.
90	8·6	1·86	4·10	3·99	6·09	8·30	−2·21	9·68	12·18	−2·50	5·5	4·3	Barrisal	Backergunge	
89	5·1	8·65	6·53	6·35	11·25	12·37	−1·12	15·65	17·12	−1·47	4·5	4·3	Noakholly	Noakholly	
91	5·7	3·34	5·84	3·36	8·66	6·08	+2·58	11·40	10·41	+0·99	5·0	3·7	Furreedpore	Furreedpore	
92	8·4	6·60	6·20	3·68	9·96	6·12	+3·84	15·59	10·02	+5·57	4·8	4·3	Dacca	Dacca	
88	6·9	3·10	3·95	4·36	9·05	7·85	+1·20	12·32	12·12	+0·20	4·8	4·0	Comillah	Tipperah	
93	9·0	13·59	11·29	4·60	16·52	8·19	+8·33	21·56	13·14	+8·42	5·8	4·0	Mymensingh	Mymensingh	
91	5·7	8·69	9·84	2·38	12·45	5·64	+6·81	14·21	10·20	+4·01	6·3	3·1	Bogra	Bogra	North Bengal.
95	8·4	5·70	6·83	3·00	9·07	5·65	−3·42	12·86	9·48	+3·38	5·0	3·6	Serajgunge	Pubna	
89	5·0	5·56	9·11	2·18	10·39	4·18	+6·21	11·15	7·89	+3·26	5·7	3·2	Rampore Beauleah	Rajshahye	
86	1·9	2·23	1·67	2·09	1·94	3·64	−1·70	2·64	6·47	−3·83	4·0	3·0	Maldah	Maldah	
93	9·4	5·71	5·56	2·48	6·51	1·80	−1·71	7·24	9·19	−1·95	5·2	2·7	Dinagepore	Dinagepore	
89	4·9	5·38	7·11	4·60	14·54	8·60	+5·94	18·09	16·00	+2·09	5·0	3·8	Rungpore	Rungpore	
91	6·4	6·73	5·25	7·48	14·40	12·59	+1·81	20·53	21·52	−0·99	4·6	4·8	Julpigoree	Julpigoree Cooch Behar	
77	7·4	7·77	5·83	6·10	10·75	9·38	+1·37	16·20	16·24	−0·04	6·3	5·3	Darjeeling	Darjeeling Hill Tracts	
89	6·3	3·53		2·42		3·64			6·69			2·3	Purneah	Purneah North Bhagulpore	North Behar.
			0·48	1·00	0·76	1·50	−0·74	1·42	2·86	−1·44	2·0	1·5	Mozufferpore	Mozufferpore	
77	4·4	2·16	1·47	1·30	1·51	1·94	−0·43	3·03	3·33	−0·30	2·0	1·7	Durbhunga	Durbhunga	
76	6·3	0·56	0·56	1·55	0·85	2·33	−1·48	1·75	3·68	−1·93	2·0	1·8	Motihari	Chumparun	
78	4·1	0·68	0·64	1·04	1·13	1·40	−0·27	2·28	2·40	−0·23	1·3	1·1	Chupra	Sarun	
71	4·0	2·60											Dumraon	Shahabad	South Behar.
76	5·6	3·66	1·81	0·58	1·93	0·73	+1·20	2·28	1·63	+0·65	1·8	1·3	Buxar		
79	4·7	1·44											Arrah		
72	4·6	2·10	1·85	0·87	1·91	1·16	+0·75	2·25	2·53	−0·28	3·0	1·5	Gya	Gya	
75	4·9	0·57	0·83	0·79	1·09	1·09	0	3·44	2·82	+0·62	3·3	1·6	Bankipore	Patna	
83	6·6	5·19	2·21	1·21	2·76	1·77	+0·99	4·39	3·38	+1·01	3·0	2·0	Bhagulpore	South Bhagulpore Monghyr	
81	4·6	2·89	3·70	1·37	3·88	2·58	+1·30	6·28	6·01	+0·27	3·5	2·3	Doomka	Sonthal Pergunnahs	
73	4·6	2·38	2·00	1·44	2·18	2·19	−0·01	3·43	3·76	−0·33	3·8	2·6	Hazaribagh	Hazaribagh	Chota Nagpore.
71	4·0	1·65	1·99	1·08	1·99	1·62	+0·37	3·03	3·46	−0·43	4·0	2·3	Ranchi	Lohardugga	
			1·80	1·48	2·42	2·60	−0·18	4·12	4·26	−0·14	5·5	2·6		Maunbhoom	
69	5·1	2·19	3·34	1·66	5·04	2·58	+2·46	7·00	5·15	+1·85	4·0	3·7	Chyebassa	Singhbhoom	
93	9·4	3·92											Sibsagar	Assam	Assam.
93	8·1	8·40											Dhubri		
94	9·7	6·04											Silchar		

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of June 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 8th June 1889.	Sunday, 9th June.	Monday, 10th June.	Tuesday, 11th June.	Wednesday, 12th June.	Thursday, 13th June.	Friday, 14th June.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	...	......	......	2·40	0·08	......	......	2	2·48	2·48	1·93	3·54	3·40
		Khurdah ...	0·35	...	...	0·66	0·40	...	...	3	1·41		2·46		4·57
		Banpur ...	...			0·30	0·50	0·10		4	6·51	6·51	3·17	7·64	4·03
		False Point ...	...	0·08	1·40	2·42	...	...	2·62				1·93		4·38
		Gop ...											?		?
		Pipli ...											?		?
	Cuttack	Jagatsingpore	0·80	0·80	0·08	1·10			0·07				1·36		2·78
		Banki ...		1·17	..	0·04	0·51	...	1·06	5	4·60	5·64	2·62	8·93	4·27
		Cuttack ...	0·03	..	0·27	2·57		0·67	0·01	4	2·67	2·76	3·57	5·54	6·38
		Kendrapara ...	..	0·04	......	1·07	1·55	......	...	3	5·41	6·51	2·74	10·07	4·76
		Jajpore ...		1·22	...	1·04	3·15	......					2·75		5·23
		Dharmsala ..	0·20		.. ..	3·35			0·47				?		?
		Salipore	..	0·58	...	0·37	2·67						?		?
	Balasore	Chandbali ...	...	...	. .	0·20	0·56	...	...	2	0·76	0·76	2·36	4·19	4·81
		Bhuddruck	0·09	..	...	0·05	1·77	0·20	0·30	2	1·86	3·55	2·96	8·63	6·00
		Soroh	..	..	0·02	0·82	..	...	...	4	0·57	0·60	2·11	5·53	5·18
		Balasore	..	..	..	1·50	1·05	...	...	2	1·87	1·87	2·29	5·09	5·10
		Jellasore ..	..	..	..	0·38	1·16	...	1·40	2	2·66	2·66	2·82	8·86	4·54
		Baripodah	0·05	0·04	2·25		....	......		5	4·12	5·06	3·74	7·34	5·88
South-West Bengal.	Midnapore ..	Contai	......	...	0·33	0·25	0·06	......	...	3	0·64	0·64	3·67	2·41	5·81
		Saugor Island	..	..	0·17	1·12	0·41	...	...	3	1·70	1·70	3·83	3·83	6·26
		Tumlook	..	.	.	..	0·20	0·90	1·00	3	2·10	2·10	3·08	3·80	5·50
		Midnapore ..	...	0·76	.	1·11	0·81	..	.	3	2·68	4·00	3·60	0·49	5·58
		Ghattal	..	0·15	..	0·11	0·53	0·33		4	1·12	1·12	5·03	4·50	7·01
		Kukrahaty ..	..		...		.	0·24	0·48	2	0·72	1·95	?	6·20	?
		Herta	..	...	...	1·31	.	..	...	1	1·31	1·31	?	6·79	?
		Bhagwanpore	..		......	1·52	0·24	0·95	.	3	2·71	2·71	?	7·38	?
		Garbetta ..	...	0·67	......	0·22	1·47	0·22	..	4	2·58	2·58	?	5·62	?
	24-Pergunnahs	Diamond Harbour	......	...	...	0·80	..	0·12	0·83	3	1·75	2·27	3·57	7·35	5·82
		Canning Town	.. ...	0·71	...	0·04	0·40	0·60	0·54	5	2·29	3·21	?	7·03	?
		Alipore Jail .	..	0·76	......	....	0·06	0·05	1·26	4	2·13	2·48	4·48	6·40	6·93
		Barrackpore	.	..	..	.	0·24	.	0·68	2	0·92	2·37	5·19	3·99	7·41
		Dum-Dum	..	0·28	.		0·62	1·24	0·78	4	2·92	4·80	4·37	7·22	7·23
		Baraset	...	2·70	0·22	0·26	0·17	0·11	0·52	6	3·98	3·98	4·14	6·03	6·91
		Buseerhat .	...	...	0·21	.....	0·98	0·70	0·09	4	1·98	3·33	4·76	5·16	8·49
	Howrah	Howrah	1·17	.. ..	0·06	0·07	0·12	0·61	0·04	6	2·07	2·43	4·31	4·57	6·50
		Mohesreka (*Ooloberiah*.)	..	0·22	0·09	0·17	0·17	0·30	1·13	6	2·08	3·15	3·57	4·76	6·15
	Hooghly .	Serampore	...	....	...	0·07	0·14	0·08	0·34	4	0·63	2·23	4·82	4·13	6·92
		Hooghly ..	0·05	0·42	0·12	0·14	0·09	..	0·64	6	1·46	2·51	4·13	3·91	6·73
		Jehanabad	..	0·56	...	0·18	3·85	0·20	0·22	5	5·01	5·01	3·81	6·54	6·56
	Burdwan .	Culna	.	0·33	.	1·63	1·02	0·11	0·58	5	3·67	5·60	4·18	8·32	6·39
		Burdwan ..	0·12	0·02	0·04	0·52	1·36	0·42	0·58	7	2·56	3·64	2·87	8·00	5·69
		Cutwa	.	0·05	. ..	0·55	..	0·12	0·27	4	0·99	1·91	4·98	3·81	7·85
		Raneegunge	.		. ..	0·07	0·08	.	0·01	3	0·16	0·76	2·72	5·78	4·73
		Mankur ...	...	0·23	0·17	0·12	0·67	0·60	0·21	6	2·00	2·30	?	6·33	?
	Bankoora ...	Bankoora ..	..	.....	......	0·14	0·17	...	......	2	0·31	1·61	3·37	5·41	5·61
		Bishenpore ..	1·07	... .	..	0·18	2·38	0·25	0·05	5	3·93	4·10	3·67	7·28	5·91
		Malnia ..	. .		0·10	1·40	.	0·06	..	3	1·56	3·51	3·57	5·61	5·40
		Khatra		0·40	...	3·40	0·85	...	1·41	4	6·06	6·06	3·30	9·25	5·26
		Indus .	0·04	. ..	0·15	0·11	2·35	0·38	0·11	6	3·14	5·12	?	8·92	?
		Kotalpore ..		... ..		0·55	2·76	0·98	......	3	4·29	4·36	?	6·55	?
		Anda	0·30	.. ..	0·05	0·40	0·10	......	... ..	4	0·85	1·00	?	1·83	?
		Gangajalghati		.. ..		0·09	1·11	... .	0·14	3	1·34	1·55	?	4·61	?
		Raipore ..	..	.....	0·17	1·98	0·65	0·98	0·87	5	4·65	5·22	?	6·64	?
		Sonamukhi .	.	....	...	0·12	2·23	0·21	0·22	4	2·78	4·21	?	9·16	?
	Beerbhoom	Bh. Soory	.	.. ..	. .	0·19	2·94	......	.	2	3·13	3·62	3·30	7·52	5·6[illegible]
		Hetampore		......	.	0·75		......	0·05	2	1·70	3·82	4·53	9·12	6·2[illegible]
		Rampore Haut		... .	0·39	0·54	2·47	..	......	3	3·40	4·35	4·04	7·27	6·0[illegible]
		Bolpore		.	. .	0·53	3·05	. .	. . .	2	3·58	4·34	?	8·17	?
		Murarai		... .	......	1·13	0·64	0·08	... ..	3	1·85	2·07	?	5·73	?
	Nuddea ..	Ranaghat	. ...	1·97	......	1·14	0·86	0·81	0·57	5	5·35	5·83	4·80	7·01	7·6[illegible]
		Kishnaghur ..	..	2·48	... ..	0·87	0·46	0·06	0·31	5	4·18	4·79	4·47	6·30	7·3[illegible]
		Chooadanga ..	. .	0·25	.. .	0·60	.. .	2·10		3	2·95	5·05	5·14	6·35	9·6[illegible]
		Meherpore ..	.	0·80	0·07	3·15	0·08	1·02	......	5	5·12	5·20	4·89	6·49	8·1[illegible]
		Kooshtea	..	3·64	0·25	0·38	1·12	1·28	......	5	6·67	7·29	5·70	8·77	9·9[illegible]
	Khoolna ..	Satkhira .	.	... ..	0·12	0·37	0·12	0·93	0·37	5	1·91	2·84	4·77	3·86	7·7[illegible]
		Baguhat ..		..	1·46	0·15	0·22	[illegible]	1·04	5	3·13	4·90	6·32	5·69	9·6[illegible]
		Khoolna ..	......	. .	0·41	0·11	0·76	[illegible]	0·30	5	1·86	3·14	5·34	3·58	8·1[illegible]
	Jessore ..	Narail ..	. ..	0·65	1·40	0·01	[illegible]	0·45	0·52	6	2·85	3·05	5·43	6·24	8·[illegible]
		Jessore ...	.	1·42	0·16	2·14	0·58	1·25	0·08	6	5·43	9·48	6·66	11·54	10·[illegible]
		Jhenidah ...	0·45	..	...	0·63	0·80	.	1·24	4	3·12	4·01	6·50	4·98	10·[illegible]
		Magoorah ...	. .	0·63	0·25	0·50	1·45	2·13	0·01	6	4·77	8·96	5·71	11·85	9·[illegible]
		Bongong ..	......	. ..	... ..	...	0·07	0·39	...	2	0·46	3·15	4·84	4·38	7·[illegible]
	Moorshedabad	Kandi ..	......	.... .	0·60	0·11	4·10	0·09	......	4	5·20	6·55	3·97	11·37	9·[illegible]
		Berhampore	.. ..		0·04	0·15	2·09	0·09	......	4	2·37	2·80	3·97	10·39	7·[illegible]
		Lalbagh ...	... ..	0·07	..	0·21	1·20	0·20	. ..	4	1·68	2·03	3·22	7·42	6·[illegible]
		Azimgunge ...	. ..		0·04	0·52	0·82	0·08	... .	4	1·46	2·06	2·91	6·39	6·[illegible]
		Jungipore ...	... .	0·21	0·25	0·70	0·35	0·03	... .	5	1·54	1·92	2·63	4·82	5·[illegible]
		Lalgola ..	.	...	0·60	0·93	1·01	0·14	...	4	2·68	3·78	3·19	8·08	6·[illegible]
		Jiagunge ...	... .	..	...	0·48	0·70	0·07	......	3	1·25	1·86	?	6·10	?
		Akhrigunj ...		0·12	0·03	1·86	0·52	0·19	. . ..	5	2·72	3·24	?	5·87	?
		Patkabari ...	1·20	... ..	2·50	0·30	0·40	......	......	4	4·40	4·80	?	6·48	?
East Bengal	Chittagong ...	Cox's Bazar ...	......	..	0·27	4·30	3·08	0·94	0·99	5	10·18	14·51	13·43	15·55	18·[illegible]
		Chittagong ...	......	..	0·07	1·65	2·20	2·21	0·39	5	6·61	7·41	11·07	9·23	10·[illegible]
		Kutubdia ...	... ..	......	0·28								?		?
		Satkanya ...	......	......	0·15	1·27	2·61	5·95					?		?
	Chittagong Hill Tracts.	Rangamati ...	......	......	0·19		2·21	3·71	2·56				9·12		13·[illegible]
		Ruma ...											8·86		13·[illegible]
	Backergunge	Patuakhally ...	..	....	0·28	0·50	1·05	1·52	1·36	6	4·99	7·83	10·03	13·21	14[illegible]
		Perozepore .	...	.	0·32	0·34	1·06	1·17	0·84	5	4·23	5·54	6·76	7·87	10[illegible]
		Burrisal ..		...	0·31	0·22	0·77	0·60	0·03	5	1·93	3·14	6·84	6·05	11[illegible]
		Bhola ...	. . .	0·87	1·18	0·25	1·18	1·30	0·38	6	5·26	7·86	9·56	11·58	13[illegible]

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of June 1889—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 8th June 1889.	Rainfall: Sunday, 9th June.	Rainfall: Monday, 10th June.	Rainfall: Tuesday, 11th June.	Rainfall: Wednesday, 12th June.	Rainfall: Thursday, 13th June.	Rainfall: Friday, 14th June.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
East Bengal —*concld.*		*Gournaddi* ...	......	... ..	......	.. .	2·73	0·70	1·03	3	4·45	6·02	?	9·80	?
		Bauphal ...	......	0·42	1·09	3·39	2·09	2·03	0·07	6	9·00	11·05	?	12·74	?
	Noakholly ...	Noakholly ..	......	......	0·17	0·38	0·94	5·15	1·64	5	8·28	14·01	10·93	10·30	15·59
		Fenny .	.....	......	......	0·22	0·62	2·87	1·06	4	4·77	8·47	13·79	11·97	18·61
		Harishpore ...					0·55						?		?
		Ramganj ..	......	1·18	......	0·39	1·05	2·97	1·07	5	6·66	12·81	?	14·09	?
	Furreedpore ...	Madaripore ..	.....	... .	1·50	0·69	1·68	0·75	0·75	5	5·37	8·31	6·50	11·11	10·73
		Furreedpore ...	.....	0·47	1·03	0·36	1·95	0·03	2·97	6	6·81	10·29	6·29	12·11	11·29
		Goalundo ..	......	....	0·20	1·17	2·60	1·38	......	4	5·35	7·40	5·95	10·98	9·67
	Dacca ...	Munshigunge	......	0·23	2·96	0·80	1·03	0·26	.....	5	5·37	8·42	7·60	14·18	11·91
		Dacca ..	......	...	2·70	1·60	0·65	1·00	. ...	4	5·95	11·93	6·37	15·88	10·58
		Naraingunge	......	0·31	4·75	1·34	1·05	0·60	.. ...	5	8·05	11·10	5·58	18·22	8·81
		Manickgunge	. .	0·04	1·81	1·32	1·17	1·45	..	5	5·79	8·39	4·94	14·08	8·97
		Joydebpore ..	....	......	0·48	0·61	1·36	1·98	0·02	5	4·45	7·60	?	11·11	?
	Hill Tipperah	Agartola ..	......	......	2·45	.. .	0·72	0·55	......	3	3·72	8·29	7·17	11·90	11·53
	Tipperah ...	Comilla ...	. ..	. ..	0·92	0·22	0·42	1·57	0·11	5	3·24	11·03	8·89	14·87	13·44
		Chandpore ..	. . .	0·36	1·30	0·75	1·10	0·80	......	5	4·31	6·87	7·02	9·42	10·32
		Brahmunberia	0·88	..	2·20	0·43	0·30	0·73	......	5	4·54	10·02	8·31	13·10	13·16
		Ramchandrapore.	...	0·30	2·74	0·48	0·18	0·30	......	5	4·00	7·36	?	10·63	?
		Nasirnagar ...	... ..	... ..	. ..	0·60	0·40	1·15	......	3	2·15	5·65	?	9·70	?
		Daudkandi ...	. ....	... .	4·15	......	1·65	0·50	......	3	6·30	9·40	?	12·75	?
		Kasba ...	......	0·10	...	.... .	1·00	0·75	......	4	2·40	6·14	?	10·16	?
		Laksham ..	......	0·23	0·55	0·15		4·30					?		?
	Mymensingh.	Kishoregunge	0·71	.. .	0·67	0·17	3·31	2·71	......	5	7·59	12·92	10·3[illegible]	18·29	15·26
		Atia (*Tangail*)	.. .	1·77	0·78	0·06	3·22	0·80	.. ...	5	7·32	9·02	6·44	15·46	10·03
		Mymensingh	1·09	0·08	0·49	0·20	2·32	7·21	0·11	7	12·16	17·61	9·35	22·57	15·34
		Jamalpore ...	1·22	1·42	.	0·54	5·13	4·17	... ..	5	12·48	17·83	6·86	21·55	11·03
		Netrokona ...	1·87	1·28	0·17	0·28	2·80	10·39	0·12	7	16·91	25·25	7·92	31·05	14·02
		Subornakhally	. ..	2·22	0·40	0·86	4·56	2·43	0·17	6	10·64	12·22	?	15·26	?
		Durgapore ...	1·99	2·60	...	2·00	2·20	6·20	... ..	5	15·09	25·20	?	33·99	?
		Sherepore Town	1·94	1·42	0·22	0·92	5·35	6·27	..	6	16·12	24·43	?	27·55	?
		Dewanganj ..		0·60	.. ..	1·42	3·27	6·72					?		?
North Bengal	Pubna	Pubna ...	.	3·35	0·14	1·30	1·50	1·43	......	5	7·72	9·42	5·79	9·69	9·45
		Seraigunge ..	......	0·42	1·15	0·28	2·18	1·90	......	5	5·93	8·71	5·50	10·01	9·50
	Bogra ...	Sherpore ...	0·05	3·30	0·07	0·71	2·65	2·10	......	6	8·97	10·15	5·10	12·09	10·15
		Nowkhilla ...	1·10	1·20	0·22	0·62	3·75	2·61	0·05	7	9·55	12·93	5·91	16·33	9·84
		Bogra ...	1·01	0·80	0·03	2·30	3·15	1·31	0·03	7	8·63	12·30	6·16	13·38	11·31
		Panchbibi ...	2·33	2·21	......	1·70	4·45	1·40	0·09	6	12·24	14·34	5·09	15·00	9·69
	Rajshahye .	Beauleah ...	... ..	1·78	1·78	0·36	0·65	0·87	......	5	5·44	7·71	4·42	8·02	7·58
		Nattore ...	... ..	4·40	1·55	4·50	4·02	0·11	.	5	14·58	14·86	4·18	15·18	7·75
		Naogaon ...	0·10	1·53	0·92	0·55	3·83	0·21	0·07	7	7·30	7·73	3·89	8·48	8·34
		Lalpore ...	1·68	0·08	0·80	1·35	1·15	1·14	0·10				?		?
		Manda ...	.....	0·77	0·37	2·40	0·30	....	. ....	4	3·84	4·00	?	5·50	?
	Maldah ...	Maldah ...	.....	0·07	......	0·02	2·04	0·10	. . ..	4	2·23	2·52	3·39	3·80	5·90
		Chanchal ...	.. ..	0·40	..	0·18	0·45	0·08	.. ..	4	1·11	1·36	3·87	1·49	7·02
		Gajol ...	.	0·10	0·08	0·03	1·00	0·20	......	5	1·39	1·88	?	2·31	?
		Sibganj ..	..	.....	0·62	0·05	0·88	1·41	......	4	2·96	3·05	?	5·60	?
	Dinagepore ...	Mohadebpore	1·50	.	0·63	4·75	0·30	0·15	3·42	6	10·75	11·97	5·28	12·62	9·31
		Churamon ..	0·03	0·10	.	0·36	0·70	0·14	.....	5	1·33	1·40	4·19	1·61	7·56
		Raigunge .	0·05	0·18	0·04	0·26	0·67	0·25	... ..	6	1·48	1·62	4·52	1·72	8·26
		Dinagepore	1·3[illegible]	.. .	1·30	0·45	2·98	0·57	.....	5	6·68	9·38	6·18	10·43	11·16
		Baloorghat .	1·25	2·05	..	. ...	2·90	0·47	. .	4	7·57	8·21	3·86	9·83	9·67
		Thakoorgaon	4·15	.	2·64	4·50	0·13	...	0·12	5	11·63	17·38	?	18·31	?
	Rungpore ...	Bhawamgunge (*Gyabanda*).	2·88	0·37	.... .	1·12	2·75	3·30	......	5	10·42	18·36	7·59	23·27	13·05
		Rungpore ...	2·97	......	0·15	0·28	1·35	0·78	0·03	6	5·56	13·15	8·02	15·73	14·97
		Kurigram ...	3·30	......	0·10	0·11	2·40	0·41	.	5	6·32	14·74	9·96	19·51	18·33
		Bagdogra (*Nilphamari*).	3·30	......	0·72	1·65	0·45	......	......	4	6·12	11·80	8·76	13·82	17·57
		Ulipore ...	3·30	0·33	0·30	......	2·96	1·02	. ....	5	7·97	14·76	?	18·55	?
	Julpigoree ...	Julpigoree ...	1·19	......	3·00	3·28	0·14	......	......	4	7·61	12·14	12·76	17·55	20·40
		Alipore Door	1·35	... ..	0·16	0·87	...	. . .	......	3	2·38	16·91	?	25·33	?
		Fallacotta ...	1·83	......	... .	1·35	. . . .	......	... ..	3	3·55	10·81	?	17·77	?
		Debiganj ...	3·74	......	1·30	3·11	0·04	... ..	. ..	4	8·19	12·59	?	15·07	?
		Bhagatpore (Nagrakatta).	1·35	... ..	0·81	1·06	0·09	......	1·46	5	4·75	11·62	?	19·64	?
	Cooch Behar.	Dinhatta .	3·85	0·34	1·22	0·31	0·15	0·45	... ..	6	6·32	17·52	11·65	24·38	21·62
		Cooch Behar ..	2·22	......	0·22	0·15	...	......	......	3	2·59	15·19	16·65	22·35	25·56
		Mekligunge ...	3·07	0·16	1·65	3·11	0·07	.....	... .	5	8·06	15·31	10·42	18·65	19·61
		Matabhanga ...	0·43	0·24	0·88	...	0·01	......	0·12	5	1·68	11·85	11·50	19·70	20·46
	Darjeeling Hill	Buxa .	2·22	0·03	0·20	1·18	0·02	......	0·34	6	3·99	13·70	18·35	25·13	32·01
		Siliguri ...	0·40	..	1·39	2·39	0·15	.. ..	0·14	7	4·47	6·01	5·09	10·91	14·52
		Darjeeling ...	2·23	0·01	1·40	0·76		0·07	3·06				7·27		11·74
		Kalimpong ..	0·59	0·05	1·64	0·94	0·22	0·57	3·08	7	7·09	10·06	3·82	12·43	6·70
		Kurseong ...	0·40	......	2·40	1·31	0·20	......	1·30	5	5·67	8·62	?	11·57	?
North Behar	Purneah ..	Kissengunge ...	3·78	......	1·50	4·60	......	0·69	......	4	10·87	13·65	5·42	10·83	9·49
		Arrarea ..	1·35	... ..	4·25	4·00	0·15	......	1·00	5	10·75	11·43	3·38		6·90
		Purneah ..	0·20	0·55	......	0·63	2·15						3·76	12·67	6·78
		Gondwara ...				1·30	2·00						?		?
		Balarampore	......	......	......	1·53	0·10	......	......	2	1·62	1·62	?	2·02	?
		Manari ...	6·07	......	1·91	1·70	......	......	......	3	9·68	11·13	?	11·91	?
		Kaliaganj ...											?		?
	North Bhagulpore.	Maddapore ..	......	1·90	3·45	1·75	......	......	......	3	7·10	7·10	2·84	8·75	5·20
		Soopool ...	......	0·17	......	0·54	0·52	0·09	......	4	1·32	1·34	2·80	2·38	4·98
		Protabganj ..	......	1·18	5·60	......	......	......	4·10	3	8·88	11·18	?	12·09	?
	Durbhunga ...	Tajpore ..	......	1·60	......	......	......	......	......	1	1·60	1·64	1·56	3·11	2·72
		Durbhunga ...	......	1·61	......	0·24	0·31	......	......	3	2·16	2·16	2·02	2·37	3·35
		Madhubani ...	.....	0·05	......	0·60	......	......	......	2	0·65	0·72	2·22	3·61	3·90
		Bahera ...	... ..	1·82	......	0·23	0·12	......	..	3	2·15	2·15	?	3·07	?
		Roshera ...	......	......	0·10	0·05	.....	.....	0·46	3	0·61	0·76	?	1·66	?
	Mozufferpore	Sitamarhi ..	......	0·04	......	0·11	0·01	......	. ....	3	0·14	0·65	2·12	0·97	3·52
		Mozufferpore	......	.....	......	......	......	......	0·88	1	0·88	0·95	1·45	1·40	2·85
		Hajipore ...	.... .	0·40	......	0·03	......	......	.... .	2	0·43	0·70	0·96	1·91	2·18
		Paru ...											?		?
		Mahua ..											?		?
		Bhahar ..											?		?
		Pupri ..	0·12	......	......	0·11	......	......	1·20	3	1·43	1·97	?	1·97	?
	Chumparun ...	Motihari	......	0·26	......	0·23	......	......	......	2	0·49	0·61	2·[illegible]	1·13	3·66
		Bettiah	.....	. ...	......	0·22	0·40	......	......	2	0·62	1·08	1·[illegible]	2·35	3·11
		Bagah	......	0·03	......	0·33	0·15	......	......	3	0·51	1·60	?	4·31	?
		Berhurwa	......	0·24	......	0·31	0·02	......	. ....	3	0·57	0·85	?		?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of June 1889—concld.

Meteorological Division.	District.	Station.	RAINFALL. Saturday, 8th June 1889.	Sunday, 9th June.	Monday, 10th June.	Tuesday, 11th June.	Wednesday, 12th June.	Thursday, 13th June.	Friday, 14th June.	TOTAL. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
NORTH BEHAR—*concluded*.	Sarun ...	Gopalgunge ...	......	......	0·23	0·04	......	......	......	2	0·27	0·86	1·73	2·87	2·87
		Sewan ...	......	......	......	0·74	......	......	......	1	0·74	1·50	1·57	2·61	2·71
		Chuprah ...	......	......	0·82	......	......	......	......	1	0·82	1·02	0·89	1·29	1·84
SOUTH BEHAR	Shahabad ...	Buxar ..	......	......	1·19	......	2·34	......	......	2	3·53	3·53	0·87	3·72	1·57
		Dehree ..	......	......	......	0·06	2·28	......	0·26	3	2·60	2·60	0·13	2·85	1·48
		Bhuboosh ...	......	......	......	......	0·50	......	......	1	0·50	0·50	0·84	0·70	0·94
		Sasseram ..	......	......	......	......	......	......	0·70	1	0·70	1·03	0·81	1·24	1·50
		Arrah ..	......	......	......	1 65	0·08	......	......	2	1·73	1·98	1·01	2·88	2·19
		Mohaniah ..	......	......	......	......	2·40	......	......	1	2·40	2·40	?	2·40	?
	Gya ..	Aurungabad	......	......	......	0·12	0·83	......	0·08	3	1·03	1·03	1·24	1·96	2·55
		Gya ..	......	......	......	1·72	......	......	0·38	2	2·10	2·10	1·29	2·10	2·68
		Nowadah ...	......	......	2·23	0 57	......	0·07	......	3	2·87	2·87	1 17	3·01	2·66
		Jehanabad ...	......	......	1·08	0·02	......	0·11	0·20	4	1·41	1·64	0·91	1·01	2·20
		Arwal ...	......	......	......	......	......	0·73	0·24	2	0·97	0·97	?	1·27	?
		Daudnagar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	0·50	?
		Sherrghati ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	0·25	?
		Rajauli ...	......	......	......	0·10	0·12	......	......	2	0·22	0·42	?	0·52	?
		Pakri Barawan	......	......	4·00	......	......	......	......	1	4·00	4·70	?	6·40	?
	Patna ...	Patna ...	......	......	0·44	0·01	0·12	......	......	3	0·57	0·57	1·15	3·46	2·74
		Dinapore ...	......	......	0·19	0·15	0 30	......	0·14	4	0·78	0·98	1·17	1·73	2·41
		Behar ...	......	......	0·12	1·45	0 06	......	0·04	4	1·67	2·52	0·89	4·10	2·34
		Barrh ...	......	0·25	......	0·06	......	......	......	2	0·31	0·31	1·19	3·27	2·62
		Bickram ...	......	......	......	0·30	0·10	......	......	2	0·40	0·50	?	1·10	?
		Hilsa ...	......	......	......	1·61	0·04	......	......	2	1·65	2·85	?	5·68	?
	Monghyr ...	Begooserai ...	......	......	......	0·02	......	......	......	1	0·02	0·66	1·72	3·17	3·18
		Monghyr ..	0·32	......	0·02	0 21	0·06	......	0·91	5	1·52	1·83	2·11	12·57	3·80
		Jamui ...	......	......	0·11	......	0 31	......	......	2	0·42	1·04	1·34	3·65	2·76
		Gogri ...	......	1·16	......	0·63	0·88	0 25	......	4	2·92	3·37	?	4·72	?
		Sheikpura ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	0 60	?
	South Bhagulpore.	Bhagulpore ...	......	0·18	......	0 09	4·78	0·11	......	4	5·16	5·65	1·07	7·98	3·60
		Banka ...	......	......	......	......	3·45	0·15	0·35	3	3·95	4·05	1·72	5·32	3·58
		Kolgong ..	......	1·69	......	0·33	0·68	0·08	......	4	2·78	2 95	?	0·86	?
	Sonthal Pergunnahs.	Rajmehal ...	......	0·11	......	0·28	2·82	0·08	......	4	3·29	3·33	2·09	4·98	5·59
		Godda ...	......	......	......	3·76	8·50	0·06	......	3	12·32	12 35	1 84	17 25	4·27
		Pakour ...	......	......	0·10	0·11	1·34	0 27	......	4	1 82	2·30	3 46	4 33	6 53
		Nya Doomka	......	......	0·07	0·48	2 28	0·06	......	4	2·89	3·05	2 72	7·21	5·01
		Deoghur ...	......	......	......	1·25	0 10	......	......	2	1·35	1·35	1·97	1 92	3·93
		Jamtara ...	......	......	......	0 13	0·31	0·18	0·26	4	0·88	1·43	2·79	1·99	4 79
		Mohagama ...	......	......	......	0·55	1·35	......	......	2	1 90	1·90	?	2 95	?
		Nanihat ...	......	......	0·07								?		?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	0 22	0·62	0·39	0·43	0·10	......	0·19	6	1·95	2 04	2·31	3·80	3 90
		Hazaribagh ..	......	......	0·12	0·33	0 49	......	1·39	4	2·33	2·63	2·34	3·46	3·80
		Sointagurah .	......	......	......	0·40	0·70	......	0 13	3	1·23	1·73	2·48	2 88	3 97
		Mahudi Hills	1·74	......	......	0 98	0·07	......	......	3	2 70	3·43	1·86	5 67	3 29
		Jhoomra Hills					0 26	......	......	1	0 26	0·26	1·91	0·69	3 68
		Barhi ...	......	......	1·65	......	1·86	......	......	2	3·51	3·69	?	5·14	?
		Chatra ...	......	......	0·80	0·20	......	0·60	1·00	4	2·60	2·90	?	4·00	?
		Karagdeha ...	......	......									?		?
		Ramghar ...											?		?
	Lohardugga ...	Lohardugga ...	......	......	0·18	0·31	2·59	0·36	......	4	3·44	3·74	0·74	4·44	3·17
		Ranchi ...	......	......	0·41	0·55	0 16	0·45	0 53	5	2·10	2·11	2·74	2 83	4·77
		Palamow ...	......	......	......	0·20	0 10	0 08	......	3	0·44	0·44	1·37	2·18	2 44
		Sills ...	......	......	......	0·00							?		?
		Bolumat ...											?		?
		Hossennabad...											?		?
		Garwah ...	......	0 07	......	0·20							?		?
	Singhbhoom ..	Chyebassa ..	0·19	......	......	1·61	0·89	......	0·65	4	3·34	3·04	2·58	7·00	5·15
		Chakradharpore.	......	......	0·53	......	0 49						?		?
		Ghatsilla ...	1·5	......	......	0·35	0·45						?		?
		Baharagura .	......	......	0·11	2·04	0 52						?		?
	Manbhoom ..	Purulia .	......	0·16	......	1·61	0·61	0 04	0·04	5	2·46	3·35	3·01	5·39	5·08
		Gobindpore ...	......	0 07	0·02	0·33	0·67	0·01	0·03	6	1·13	1·48	2·19	2 01	3 43
		Raghunathpore.	......	......	......	0·24	0·07	......	1·05	3	1·36	1·39	?	2·94	?
		Barrabhoom...	......	......	......	0·50	0·18	0·20	0·05	4	0·93	0 93	?	3·32	?
		Jhalda ...	......	4·70	......	0 30	......	0 44	......	3	5·44	7·24	?	8·13	?
		Chas ...	......	1·00	......	......	0·60	......	0 80	3	2·40	2·40	?	2·60	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 14th June* 1889.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS MADE IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS MADE IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 14TH JUNE 1889.

At the close of the previous week the meteorological conditions in the province were those which immediately precede the setting in of the monsoon rains. Heavy rainfall had been received for some time previous in Assam, and the rainfall-bearing current was gradually extending over East and North Bengal, and in both districts at the end of the week fairly general rain was being received. In the Bay the monsoon current had been blowing decidedly strongly for some time, and it was evident it had advanced well into the northern half of the Bay. On Saturday, the 8th of June, the wind velocities at the stations in the centre and south of the Bay commenced to increase, showing that the monsoon current was blowing more strongly, and at the same time wind directions began to shew a tendency to cyclonic circulation off the Orissa coast, where pressure was also falling moderately. On Sunday, the 9th of June, pressure had fallen slowly on the Orissa coast, while it was rising moderately elsewhere, and at the coast stations in the north-west of the Bay a distinct cyclonic circulation of winds obtained. It was clear, therefore, that a small cyclonic storm had formed in front of the advancing monsoon current at some little distance from the land, and the appropriate storm signals were therefore hoisted in the Hooghly and at the stations along the Orissa coast on the morning of the 9th. The storm, however, did not develop to any extent, but as it approached the land it apparently partially broke up or filled up and resolved itself into two or more smaller cyclonic whirls which existed in a general area of low pressure. This low-pressure area gradually drifted over the north-west angle of the Bay, and one of the small whirls passed between False Point and Saugor Island on the 10th; and though a second whirl still existed in the north-west angle of the Bay, and was probably between Saugor Island and False Point on the morning of the 11th, it was evident that the storms were of comparatively little importance, and the storm signals were lowered on the evening of the 10th. The second small whirl appears to have passed inland near Saugor Island on the 11th, and on the morning of the 12th it existed as a barometric depression in Central Bengal. The depression then advanced in a north-north-easterly direction, and on the 13th its centre was between Bogra and Mymensingh, while on the 14th it had advanced to the foot of the hills and had partially broken up and become more diffused; and on this day pressure was low along the whole of North Behar and over part of North Bengal. These small whirls were accompanied by the usual cyclonic circulation of winds, though the wind force as registered at the land stations was in all cases small, and they, as before stated, formed the front of the steadily advancing monsoon current. Owing to the cyclonic circulation in the north-west of the Bay, the monsoon current was first swept round the eastern quadrant of the small storm and advanced over the eastern half of the province, and general heavy rain commenced to fall in North Bengal from about the beginning of the week. In East Bengal heavy rain was received from about the 10th, and in South-West and Central Bengal and Orissa from the 11th; while in Behar and Chutia Nagpur rainfall commenced on the 11th and 12th, though it was not quite so general as in other districts. The monsoon rains may therefore be said to have broken over the whole of the province about the middle to the close of the week under review.

The small storms which formed in front of the advancing monsoon winds were, as they advanced over the land, very feeble, though they, as before stated, caused the commencement of the rains. At sea, however, the storm seems to have been of very much greater force, and bad weather prevailed over the northern half of the Bay for a considerable part of the week The observations supplied to the Meteorological Department by the Commander of the *Lalpoora*, which vessel was coming from Ceylon to Calcutta, appear to show that this steamer passed through the eastern quadrant of a cyclonic storm on the evening of the 9th off the South Orissa or Ganjam coast, and vessels also coming across the Bay seem to have experienced general bad weather. On approaching the land, however, the storm seems to have broken up to a considerable extent, and to have given rise to feeble whirls only.

Pressure.—The mean pressure for the week has been above the normal at all staions in the province except at False Point, where a slight defect is reported, which is probably due to the existence of the depressions above noticed In other cases in Bengal, pressure has generally varied from about 0·02 inch to 0·05 inch in excess of the normal. In Assam pressure is in excess by amounts varying from 0·04 inch to 0·06 inch.

Temperature.—Owing to the heavy rainfall which has generally been received during the week, the mean temperature has now become below the normal in all districts except Orissa. In Behar, North Bengal, and Chutia Nagpur, the defects are considerable, and vary from 2° to 4°. In East Bengal the defect equals about 1°, while in South-West Bengal it is less than half a degree. In Orissa, on the other hand, temperature has been in excess of the normal by 0·4°. In Assam the mean temperature has been nearly 3° below the normal.

Rainfall—Has been decidedly heavy during the week. East and North Bengal, have received average falls of between six and seven inches, or from two to three inches in excess of the normal fall for the period. Orissa, South-West Bengal, and Behar have received average

falls of between two and three inches, and these districts show in all cases falls very considerably in excess of the normal. The smallest average fall of a little less than two inches has been received in Chutia Nagpur, but even here the fall has been more than forty per cent. in excess of the normal fall.

In some of the districts in East and North Bengal the falls have been particularly heavy, and thus in Mymensingh an average district fall of no less than 11·2 inches is recorded, in Bogra one of 9·84 inches, and in Rajshahye one of 9·11 inches. On the other hand, in some districts very scanty falls have been received. In Mozufferpore a district fall of only 0·48 inch is recorded, in Chumparun one of 0 56 inch, in Sarun 0·61 inch, and in Patna 0·83 inch, and if the reports of the rainfall recording officers are to be trusted, at some stations even no rain at all has been received during the week. This is perhaps the case at Daudnagar and Shergati in the Gya district, and at Sheikpura in the Monghyr district. In other cases, such as at Kaliagunge, Paru, &c., no reports have yet been received of any rainfall at these stations during the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of June 1889:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	104·0	74 1	93 8	81·2	87·5	+0·4	2·63	1·46	+1·17	3·2	2 5	+0·7	3·09	2 59	5·74	4·76
South-West Bengal ...	103·4	71·2	94·1	79·4	86 7	—0·3	2·68	2·26	+0·42	4·2	3·0	+1·2	3 70	4·29	6·42	7 63
East Bengal	94·0	73·6	86·7	[illegible] 2	82 0	—1·1	6·58	4·49	+2·09	5·0	4 2	+0 8	10·[illegible]	8·30	14·17	12·70
North Bengal	100 0	67·3	87·6	74 7	81·2	—3·4	6·65	3·78	+2·87	5·2	3·5	+1·7	10·74	7·00	13 41	12 55
North Behar	103·8	71·8	93·2	77·4	85·3	—2·4	2·59	1·57	+1·02	2·4	1·7	+0·7	3·07	2·33	4·43	4·16
South Behar	111 4	72 8	95·6	79·4	87 5	—2 8	2·23	1·00	—1·23	2·9	1 8	+1·1	2 47	1·55	3·85	3·15
Chutia Nagpur	105·5*	69·9*	94 5*	75 4*	85 0*	—4·0*	1·94	1·37	—0·57	4·1	2 6	+1·5	2·18	2·14	3·39	3·89
Assam	91·0	72·8	84·9	75·7	80 3	—2·7										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL; A. PEDLER,

The 18*th June* 1889. *Offg Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th June 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
June ...	9th ...	29·687	88·1	99·5	22·9	76·6	89·1	83·0	1·048	80·7	77	0·56
,, .	10th ...	·613	87·1	92·5	10·9	81·6	86·1	82·5	1·064	81·1	86	0·02
,, ...	11th ...	·603	84·6	88·5	7·9	80·6	84·8	82·3	1·072	81·4	89	0·04
,, ...	12th ...	·585	85·5	92·2	13·4	78·8	85·2	81·5	1 029	80·1	85	0·08
,, ...	13th ...	·577	87 2	96·5	18·7	77·8	89·2	83·7	1 082	81·7	79	0·22
,, ...	14th ...	·565	85·6	96·2	21·2	75·0	89·6	82 5	1·016	79·7	73	0·7
,, ...	15th ...	·491	86·6	93 9	14·6	79·3	89·1	82·5	1 023	79·9	75	... ..

	Inches.
The mean 10 A.M. pressure of the seven days	29·586
	°
The mean temperature of the seven days	86·4
The extreme variation of temperature	24·5
The maximum temperature	99·5
	%
The mean 10 A.M. relative humidity of the seven days	81
	Inches.
The total fall of rain from 9th to 15th June 1889	4·65

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA; A. PEDLER,

The 17*th June* 1889. *For Meteorological Reporter to the Govt of India.*

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th June 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	9th	156 8	6·9	29·589	86·3	91·2	18 5	75·7	81·1	0·994	79 0	80	E by N, ESE and calm.	101	Nil	Chiefly cloudy, ⌂.
„	10th	154·4	3·0	·596	85 3	90 8	9 7	81·1	80·9	·997	79·1	82	ESE and E ..	127	0·02	Chiefly cloudy, o, g, d, t.
„	11th	144·5	0·4	·565	83 7	87 5	8·1	79·1	79·8	968	78 2	84	ESE and calm ..	106	0 07	Cloudy, o, g, d, t.
„	12th	152·5	1·4	552	82 7	90·5	12 2	78 3	79·1	·949	77 6	85	WSW and calm	93	0·06	Cloudy, o, g, d, t, <.
„	13th	151 5	7·3	·536	85·9	96 3	19 0	77·3	80 1	·956	77·9	79	WNW, calm and variable.	115	0·69	Chiefly cloudy o, g, t, p, <, w.
„	14th	150 5	4·3	507	85 2	94 0	19 8	74 2	80 1	·976	78 5	81	WSW, SW by W and calm.	82	0·47	Chiefly cloudy, o, g, d, t, p
„	15th	157·5	Nil	·441	82 4	93 0	14 6	78 4	78 5	·922	76·8	83	Calm and variable	33	0 31	Cloudy, o, d, t, p, <.

		Inches.
The mean pressure of the seven days	... ...	29·541
The average pressure of the corresponding period for 24 years, S.-G.'s Office	...	29·552
		Hours.
The total number of hours of bright sunshine	... .	23·3
The maximum possible number of hours of sunshine	... ...	94·2
		°
The mean temperature of the seven days	... ...	84·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office		85·1
The extreme variation of temperature	... ...	22·1
The maximum temperature	... ...	96 3
		Miles.
The highest velocity of the wind in one hour	... ...	20
		lbs.
The highest pressure of wind on one square foot	... ... Approximately	14
		%
The mean relative humidity	... ...	82
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	... ...	81
		Inches
The total fall of rain from 9th to 15th June 1889	... ...	1 62
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	3·52
The total fall from 1st January to 15th June 1889	... ...	11·28
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	15·07

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, ⌂ dew, < lightning, w strong wind.

A. PEDLER,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 17th June 1889.

MEMORANDUM.

THE number of deaths registered during the month of March 1889 in the districts of Bengal (excluding Kissenganj Municipality in Purneah, from which no return has yet been received) amounted to 114,210 among a population of 66,055,695, yielding a death-rate of 20·64 per 1,000, as opposed to 17·52 per 1,000 during the preceding month, and 21· per 1,000 during the corresponding month of 1888, showing, as compared with the former period, a large increase in mortality.

2. The undermentioned districts furnished the highest proportions of deaths :—

Districts.	Ratio per *mille.*	*Districts.*	Ratio per *mille.*
Purneah	62·16	Dinajpur	27·84
Backerganj	48 12	Julpaiguri	26·28
Noakhali	33 72	Rungpore	25·68
Murshedabad	30·84	Khulna	25·20
Darjiling	28 08	Tipperah	24·96

3. Of the diseases mentioned below, it will be seen that cholera prevailed with much greater severity in March 1889 than in the corresponding month of the preceding year; and that fever was considerably less fatal, *vide* figures given below :—

	Ratio per *mille* during— March 1889.	March 1888.
Cholera	3·36	1·80
Small-pox	·12	·12
Fever	13·20	14·64
Bowel-complaints	60	·72
Injury	·24	·12
Other causes	3·12	3·24

4. The following districts suffered conspicuously from cholera, fever and the maladies coming under the head of "Other causes," the other diseases noted in the above table not exhibiting any noticeable local severity :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Purneah	40·20	Dinajpur	25·44	Poori	12·72
Backerganj	21·60	Noakhali ...	24·36	Backerganj	8·52
Murshedabad... ...	9·60	Julpaiguri ...	22·92		
Faridpore	6·96	Rungpore ...	22·80		
Tipperah	6·24	Purneah ...	21·00		
Khulna ...	5·64	Rajshahye ...	20·16		
Noakhali	5·04				
Balasore	4·44				
24-Pergunnahs ...	4·08				
Bankura	3·36				
Dacca	3·24				
Howrah	3·12				
Poori	2·76				
Midnapore	2 16				
Julpaiguri	2·16				
Nuddea	2·04				

5. The mortality of the month distributed under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23·04	Christians	13·44	Under 1 year ...	141 84
Females	18·36	Hindus	19·44	1 and under 5 years ...	19·20
Ratio of male deaths to every 100 female deaths	123	Mahomedans... ...	23 52	5 " 10 " ...	9·84
		Buddhists	16·92	10 " 15 " ..	9 72
		Other classes ...	16·20	15 " 20 " ...	14 76
				20 " 30 " ...	14·64
				30 " 40 " ...	16·08
				40 " 50 " ..	21·24
				50 " 60 " ...	28·92
				60 years and upwards ...	48 72

The 17*th June* 1889.

W. H. GREGG, *Dip. Publ Health, Camb.,*
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of March 1889.

1	2	3			4							5							6		7		8		9
					MORTALITY ACCORDING TO—																				
					Disease.																Sex.				
DIVISIONS.	DISTRICTS.	POPULATION			DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
BURDWAN	Burdwan	668,295	723,528	1,391,823	235	21	1,777	64	17	505	2,619	1·92	·12	15·24	·48	·12	4·32	22·56	19·08	25·68	1,385	1,234	24·84	20·40	112
	Bankura	507,136	534,616	1,041,752	290	46	1,193	63	9	348	1,955	3·36	·48	13·68	·72	·09	3·96	23·44	17·88	20·76	1,082	873	25·56	19·56	123
	Birbhum	381,563	412,865	794,428	37	....	1,082	11	5	496	1,631	·48	......	16·32	·12	·07	7·44	24·60	24·24	32·40	854	777	26·76	22·56	109
	Midnapore	1,243,195	1,272,370	2,515,565	477	14	3,131	192	46	585	4,445	2·16	·06	14·88	·84	·12	2·76	21·12	21·36	25·92	2,376	2,069	22·92	19·44	114
	Hughli	315,665	347,385	663,050	53	3	845	106	18	232	1,257	·84	·04	15·24	1·80	·24	4·08	22·68	22·20	26·88	676	581	25·68	20·04	116
	Serampore	174,566	177,389	351,955	11	...	310	68	16	113	518	·36	...	10·56	2·28	·48	3·84	17·64	18·24	26·40	292	226	20·04	15·24	129
	Total (Hughli including Serampore)	490,031	524,974	1,015,005	64	3	1,155	174	34	345	1,775	·72	·02	13·56	2·04	·36	3·96	20·88	20·88	26·64	968	807	23·64	18·36	119
PRESIDENCY	Howrah	316,479	318,902	635,381	170	2	529	194	25	251	1,171	3·12	·03	9·96	3·60	·36	4·68	22·08	23·20	26·52	660	511	24·96	19·20	129
	24-Pergunnahs	975,430	894,429	1,869,859	650	14	1,879	237	60	425	3,265	4·08	·08	12·00	1·44	·36	2·64	20·88	20·76	26·76	1,892	1,373	23·16	18·36	137
	Nuddea	805,779	849,942	1,655,721	290	4	1,844	34	47	447	2,666	2·04	·02	13·32	·24	·24	3·12	19·32	16·56	22·44	1,448	1,218	21·48	17·16	119
	Jessore	969,271	960,104	1,929,375	202	......	2,671	11	42	277	3,203	1·20	.....	16·40	·06	·24	1·68	19·80	19·32	21·36	1,748	1,455	21·84	17·76	120
	Murshidabad	586,483	640,307	1,226,790	985	.....	1,906	27	11	226	3,155	9·60	. .	18·60	·24	·09	2·16	30·84	19·56	23·40	1,738	1,417	35·52	26·52	122
	Khulna	568,402	511,546	1,079,948	518	4	1,377	16	27	332	2,274	5·64	·03	15·24	·12	·24	3·00	25·20	19·96	28·32	1,234	1,040	26·04	24·36	118
RAJSHAHYE	Dinajpur	782,292	732,054	1,514,346	9	1	3,222	10	20	264	3,526	·06	·007	25·44	·07	·12	2·04	27·84	25·68	27·96	1,968	1,558	30·12	25·44	126
	Rajshahye	660,226	678,412	1,338,638	18	3	2,248	4	29	136	2,438	·12	·02	20·16	·02	·24	1·20	21·84	19·20	25·32	1,372	1,066	24·84	18·84	129
	Rungpore	1,067,701	1,030,263	2,097,964	241	.....	4,066	10	24	227	4,508	1·32	......	22·80	·08	·12	1·20	25·68	21·84	29·40	2,464	2,044	27·60	23·76	120
	Bogra	372,677	361,681	734,358	6	1	1,012	1	14	234	1,268	·09	·01	16·44	·01	·12	3·72	20·64	20·40	24·36	726	542	23·28	17·88	133
	Pubna	648,311	663,417	1,311,728	56	......	1,819	14	21	88	1,998	·48	....	16·56	·12	·12	·72	18·24	16·92	21·72	1,198	800	22·08	14·40	149
	Darjiling	89,395	66,7[illegible]	156,137	24	...	258	34	8	42	366	1·80	...	19·80	2·52	·60	2·92	28·08	21·48	29·76	230	136	30·84	24·36	169
	Julpaiguri	305,555	276,007	581,562	109	1	1,111	4	6	43	1,274	2·16	·01	22·92	·07	·12	·84	26·28	24·60	23·44	736	538	28·80	23·28	136
DACCA	Dacca	1,033,963	1,082,487	2,116,450	574	7	2,189	137	31	763	3,701	3·24	·03	12·36	·72	·12	4·32	20·88	18·12	16·04	2,108	1,593	24·30	17·54	131
	Faridpore	805,989	825,745	1,631,734	957	11	1,728	52	32	257	3,037	6·96	·07	12·60	·36	·14	1·80	22·32	14·64	16·56	1,745	1,292	25·92	18·72	135
	Backerganj	973,479	927,410	1,900,889	3,910	6	2,228	59	64	1,364	7,631	24·60	·03	14·04	·36	·36	8·52	48·12	27·84	40·20	4,112	3,519	50·64	45·48	116
	Mymensing	1,553,397	1,498,569	3,051,966	216	198	2,958	42	31	470	3,815	·84	·72	11·16	·12	·12	1·80	15·00	16·92	17·16	2,084	1,731	16·08	13·80	120
CHITTAGONG	Chittagong	531,649	600,692	1,132,341	82	...	1,372	63	32	196	1,745	·84	. .	14·52	·60	·24	2·04	18·48	20·28	23·98	945	800	21·24	15·96	105
	Noakhali	415,248	405,524	820,772	346	2	1,672	61	21	208	2,310	5·04	·02	24·36	·84	·24	3·00	33·72	27·00	23·16	1,213	1,097	35·04	32·40	110
	Tipperah	777,893	71[illegible]	1,519,338	791	29	1,606	90	15	639	3,170	6·24	·12	12·60	·60	·10	5·04	24·96	23·04	21·48	1,794	1,376	27·84	21·96	130
PATNA	Patna	858,783	894,073	1,756,556	11	36	1,147	105	61	411	1,771	·07	·24	7·80	·60	·36	2·76	12·00	12·36	13·68	932	839	12·96	11·16	111
	Gya	1,043,441	1,081,241	2,124,682	59	46	1,986	36	74	325	2,526	·24	·24	11·16	·12	·36	1·80	14·16	13·08	15·48	1,349	1,177	15·48	12·96	114
	Shahabad	950,250	1,014,659	1,964,909	59	164	1,699	54	64	297	2,307	·36	·96	10·08	·24	·36	1·80	14·04	14·40	13·08	1,291	1,016	16·20	12·00	127
	Mozufferpore	1,265,731	1,316,329	2,582,060	....	29	1,579	91	47	267	2,013		·12	7·32	·36	·12	1·20	9·24	9·72	9·48	1,178	835	11·16	7·[illegible]6	141
	Durbhanga	1,295,788	1,339,659	2,635,447	5	41	2,096	116	53	193	2,504	·02	·12	9·48	·48	·24	·84	11·40	10·80	15·84	1,371	1,133	12·72	10·08	121
	Sarun	1,083,565	1,196,817	2,280,382	3	25	1,105	304	82	1,299	2,818	·02	·12	5·76	1·56	·34	6·84	14·88	13·44	13·80	1,542	1,276	17·04	12·72	120
	Chumparun	870,627	850,981	1,721,608	.....	77	1,023	17	57	348	1,522	....	·48	7·08	·10	·06	2·40	10·56	9·84	13·92	819	703	11·28	9·84	116
BHAGULPORE	Monghyr	962,124	1,000,650	1,962,774	7	....	2,199	33	54	430	2,722	·06	....	13·32	·12	·24	2·52	16·56	16·80	20·04	1,490	1,232	18·36	14·76	120
	Bhagulpore	979,116	957,039	1,936,155	164	13	2,235	17	14	479	2,922	·96	·07	13·56	·09	·08	2·88	17·76	16·56	20·76	1,634	1,288	19·92	15·60	126
	Purneah	937,080	911,607	1,848,687	6,198	5	3,250	31	24	80	9,588	40·20	·02	21·00	·12	·12	·48	62·16	21·36	21·48	5,263	4,325	67·32	56·88	121
	Maldah	346,998	363,450	710,448	17	......	974	12	2	58	1,093	·24	..	16·44	·12	·02	1·44	18·36	16·68	23·04	553	540	19·08	17·76	102
	Sonthal Pergunnahs	785,330	782,763	1,568,093	54	1	1,159	28	11	151	1,404	·36	·007	8·76	·12	·03	1·08	10·68	10·80	11·76	862	542	13·08	8·28	159
ORISSA	Cuttack	877,702	917,363	1,795,065	118	32	1,259	285	70	803	2,567	·72	·12	8·40	1·80	·36	5·28	17·10	13·44	21·72	1,387	1,180	18·96	15·36	117
	Poori	446,609	441,878	888,487	211	101	206	160	18	950	1,646	2·76	1·32	2·76	2·16	·24	12·72	22·20	19·44	25·44	902	744	24·12	20·16	121
	Balasore	461,461	483,819	945,280	350	35	542	348	29	507	1,811	4·44	·36	6·84	4·32	·36	6·36	22·92	22·68	22·44	1,025	786	26·64	19·44	130
CHOTA NAGPORE	Hazaribagh	544,903	559,839	1,104,742	46	5	1,354	50	35	163	1,653	·48	·04	14·64	·45	·36	1·68	17·88	15·96	25·32	938	715	20·64	15·24	131
	Lohardugga	796,657	812,587	1,609,244	......	......	1,410	165	21	523	2,119		......	10·44	1·20	·12	3·84	15·72	15·12	22·32	1,190	929	17·88	13·68	128
	Singbhum	226,681	227,094	453,775	1	...	623	40	19	148	831	·02	.	16·44	·96	·48	3·84	21·96	15·48	17·52	478	353	25·20	13·60	135
	Manbhum	525,328	532,900	1,058,228	48	13	1,103	[illegible]	14	169	1,447	·48	·12	12·48	1·09	·12	1·80	16·32	15·44	19·92	805	642	18·36	14·40	125
	TOTAL FOR THE PROVINCE	32,777,919	33,277,776	66,055,695	18,614	990	72,792	3,598	1,420	16,799	114,410	3·36	·12	13·20	·60	·24	3·12	20·64	17·52	21·00	63,089	51,121	23·04	18·36	123

Divisions.	Districts.	Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Death. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
BURDWAN	Burdwan	...	2,125	487	......	7	..	22·08	22·08	..	13·08	520	191	129	83	131	378	325	289	231	313	198·12	17·40	9·24	7·44	12·84	17·76	17·52	22·68	28·56	51·72
	Bankura		1,776	68		111		22·28	17·52		15·72	350	197	114	87	151	265	[illegible]	193	157	233	152·76	19·44	9·00	9·64	19·20	17·76	17·04	34·44	30·24	50·16
	Bhirbhum		1,331	294		6		25·80	[illegible]		4·92	500	142	61	41	81	170	162	153	114	207	350·40	21·24	7·20	6·00	14·52	15·00	15·72	21·12	25·52	53·76
	Midnapore	2	3,853	277		311	32·40	20·04	20·16		31·68	675	440	254	155	255	538	542	459	420	711	129·36	19·20	8·64	7·44	13·32	13·44	17·64	23·40	35·16	62·28
	Hughli	1	969	287			41·25	21·72	26·52			228	92	51	42	65	197	171	127	105	180	161·28	18·60	8·88	8·04	12·96	18·24	19·08	20·16	28·28	58·32
	Serampore		430	79				18·00	15·96			87	42	20	25	26	61	64	64	48	71	116·16	15·72	7·8	9·72	9·84	10·32	13·20	18·72	22·68	43·68
	Total (Hughli, including Serampore)	1	1,405	366	...	..	18·24	20·40	23·16			325	134	71	67	91	258	234	191	153	251	144·48	17·61	8·24	8·64	11·88	15·48	16·92	19·68	25·08	53·28
	Howrah	3	937	231			17·52	22·44	20·88			207	140	79	58	60	111	116	90	83	237	133·32	24·72	12·12	11·28	12·48	10·92	14·76	17·76	26·52	70·20
PRESIDENCY	24-Pergunnahs	3[illegible]	2,156	1,079			25·68	22·32	18·36			441	371	237	155	198	451	450	273	287	409	1[illegible]7·04	21·48	11·70	10·56	15·72	15·48	18·84	17·64	31·08	43·20
	Nuddea	12	1,300	1,354			22·32	21·36	17·52			605	320	187	165	167	217	248	238	184	324	190·44	19·20	8·76	11·40	16·44	9·84	13·08	17·16	20·52	37·68
	Jessore		1,198	2,005				18·60	20·52			530	348	300	184	188	362	380	304	237	411	123·48	16·08	12·36	11·16	15·24	13·32	17·28	18·96	22·68	41·52
	Murshidabad		1,618	1,537				30·48	51·20			460	414	283	180	176	373	318	321	240	386	195·12	35·04	19·20	17·76	21·56	21·96	21·72	30·9	37·32	59·64
	Khulna		1,[illegible]25	1,249				23·40	[illegible]			401	280	220	87	123	270	208	205	155	324	131·28	26·28	17·28	9·48	15·36	16·92	16·80	24·00	30·00	62·16
RAJSHAHYE	Dinajpur		1,674	1,849		3		27·96	27·84		25·08	405	285	169	173	190	586	560	474	251	333	169·56	[illegible]	9·36	13·80	19·44	27·24	22·64	37·08	37·65	53·64
	Rajshahye		484	1,954				20·04	22·32			[illegible]	228	188	136	177	327	337	264	145	208	163·80	16·80	10·44	12·12	20·28	17·04	21·00	24·72	24·36	35·40
	Rungpore		1,682	2,846				24·36	26·64			479	310	255	254	319	682	716	612	347	494	111·24	15·24	9·60	15·96	27·00	22·92	26·76	34·32	33·48	53·20
	Bogra		232	1,036				19·68	20·88			298	104	79	58	74	156	150	131	85	134	233·16	12·84	7·68	9·36	14·88	15·00	17·04	24·00	27·84	42·84
	Pubna		572	1,423				18·96	18·00			28	275	254	153	134	223	191	165	115	203	84·96	[illegible]	14·40	14·52	16·92	13·08	12·60	16·20	18·84	27·84
	Darjiling		318	20	26	2		30·00	29·16	16·56	37·44	41	26	21	22	36	64	50	46	26	34	157·14	19·20	13·44	16·80	32·64	21·96	23·40	40·32	43·08	58·56
	Julpaiguri		760	495		19		24·72	28·44		50·52	190	87	60	77	72	177	193	147	108	163	141·24	15·12	8·16	15·12	20·64	21·96	27·24	30·00	38·28	60·60
DACCA	Dacca	14	1,547	2,140			19·08	22·20	20·52			772	458	270	164	177	370	342	328	243	557	157·44	18·72	9·60	8·64	13·08	13·32	15·48	12·60	25·92	50·28
	Faridpore	3	1,121	1,919			13·08	21·00	23·52			430	413	274	167	199	337	371	288	212	346	127·32	23·04	13·68	11·52	19·80	15·12	19·80	22·20	25·80	42·36
	Backergunj	8	1,097	5,924	2		25·80	32·52	56·04	4·92		1,063	1,154	853	419	864	934	832	616	487	844	272·88	55·56	38·28	25·68	26·88	32·64	41·28	43·20	54·12	103·56
	Mymensing		1,305	2,475		45		15·72	14·52		20·76	473	303	279	150	208	507	508	373	350	604	76·20	10·56	6·60	5·88	9·96	11·88	14·64	16·92	26·88	42·48
CHITTAGONG	Chittagong	6	460	1,194	85		68·16	20·04	17·76	18·00		190	196	99	63	98	182	207	190	186	334	69·00	15·96	6·24	5·52	12·12	12·96	18·00	23·40	33·12	64·92
	Noakhali	1	541	1,768			20·40	30·60	35·40			453	501	178	81	99	201	198	167	145	287	233·52	53·64	16·08	10·80	17·04	18·48	23·44	28·68	37·56	89·16
	Tipperah		1,018	2,152				23·88	25·56			513	306	215	184	258	390	324	253	203	437	173·[illegible]4	22·08	10·80	13·44	24·00	18·60	19·24	22·90	29·40	66·24
PATNA	Patna	3	1,583	185			13·80	12·24	10·32			444	267	62	35	52	148	[illegible]	153	205	287	128·52	11·64	4·20	2·40	5·40	6·00	7·44	9·72	19·56	26·64
	Gya		2,270	256				14·40	13·08			458	314	134	74	66	197	212	274	313	454	128·40	13·56	5·52	4·20	5·64	6·60	8·04	14·52	25·44	45·84
	Shahabad		2,091	216				13·80	17·64			414	208	130	79	73	215	228	256	292	412	110·64	10·08	5·64	4·56	6·84	7·80	9·12	15·48	29·16	38·88
	Mozufferpore		1,780	234				9·36	8·76			193	271	107	97	79	225	199	230	268	344	52·08	9·96	3·12	4·44	5·64	6·48	6·12	10·20	18·06	26·76
	Durbhunga	1	2,246	257			36·84	11·32	9·96			323	406	172	112	65	221	280	270	293	337	76·92	15·12	5·04	5·28	5·64	6·12	4·92	11·32	20·52	30·36
	Sarun		2,553	265				15·12	11·76			678	373	141	86	70	215	230	240	211	574	154·16	15·96	5·04	4·32	5·64	7·08	8·04	12·04	18·00	50·04
	Chumparun	3	1,324	195			18·48	10·68	9·60			223	173	71	46	56	157	174	179	166	277	60·48	10·20	3·48	3·12	5·70	6·48	7·68	11·88	19·08	34·68
BHAGULPORE	Monghyr	2	2,476	238		6	21·16	16·68	15·24		9·96	694	401	100	84	72	186	202	230	278	475	225·84	18·96	3·96	4·92	6·36	7·08	8·28	13·44	27·36	80·40
	Bhagulpore		2,698	224				18·24	14·40			630	336	186	116	125	316	343	317	218	335	205·08	17·52	7·08	6·48	10·56	11·28	13·44	19·92	24·72	41·88
	Purneah		6,7[illegible]2	2,856				74·88	44·40			448	1,035	1,130	849	799	1,637	1,424	1,055	591	619	142·20	58·20	47·52	53·52	70·08	63·00	58·44	67·32	76·92	79·68
	Maldah		[illegible]56	437				20·76	15·34			158	173	74	57	55	108	130	100	81	157	96·24	24·84	8·04	9·24	16·92	11·04	15·48	17·88	25·68	43·68
	Sonthal Pergunnahs		845	97		472		11·76	10·68		9·24	220	179	83	68	99	172	180	118	136	149	84·48	9·36	3·36	4·44	10·44	8·88	10·20	10·92	20·76	23·16
ORISSA	Cuttack	4	2,519	34			20·40	15·96	8·52			529	244	126	60	94	255	260	233	265	501	168·96	12·84	5·52	3·72	8·16	9·96	13·96	17·52	27·48	53·28
	Pooree		1,028	18				22·20	15·36			338	159	83	48	73	158	154	133	197	273	290·28	16·80	7·80	6·36	13·08	11·88	14·68	18·96	39·96	36·24
	Balasore		1,708	38		5		23·16	19·08		12·24	482	136	83	74	81	195	187	166	164	243	281·52	16·32	6·96	8·52	13·20	14·16	17·88	20·16	35·76	56·40
CHOTA NAGPORE	Hazaribagh	2	1,394	137		120	43·44	18·84	15·48		19·56	318	194	76	68	48	1[illegible]0	198	205	186	238	109·80	14·76	4·80	6·96	6·36	8·64	14·40	25·8	40·32	65·64
	Lohardugga	17	931	119		1,032	5·52	12·84	18·36		20·04	360	242	99	102	85	236	261	222	199	313	101·40	12·12	4·32	6·72	8·76	10·68	13·92	20·16	31·32	57·72
	Singbhum	2	527	2			7·92	22·08	10·20			98	81	52	34	54	79	105	92	103	132	135·96	15·72	8·28	7·92	16·92	12·72	19·56	28·20	54·84	61·24
	Manbhum	1	1,513	39		94	21·72	16·56	10·20		17·04	203	195	100	56	89	188	164	154	120	178	85·08	16·68	6·60	6·24	11·76	13·32	13·32	21·12	27·60	40·32
	TOTAL FOR THE PROVINCE...	115	69,744	41,985	113	2,253	13·44	19·44	23·52	16·92	16·20	18,359	13,056	8,191	5,513	6,213	13,565	13,338	11,364	9,452	15,129	141·84	19·20	9·84	9·72	14·76	14·64	16·68	21·24	28·92	48·72

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 17th June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

Sanitary Commissioner for Bengal.

MEMORANDUM.

DURING the week ending 1st June 1889, the principal Municipalities in Bengal returned a birth and death-rate of 14·7 and 18·4 per 1,000 of population, respectively, against 16·6 and 20·9 per 1,000 in the preceding week ending 25th May, indicating a large retrogression in the registration of both births and deaths.

2. In the following Municipalities births and deaths were recorded at the highest rates:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Darjiling	45·6	Puri	81·8
Ramporo Beauleah	42·0	Darjiling	58·7
Utterpara	37·7	Jessore	30·6
Puri	29·4		

3. The mortality from the specific diseases did not exhibit any noticeable differences in comparison with the death-rates from the same diseases during the preceding week:—

	Ratio per *mille* during the weeks ending— 1st June 1889.	25th May 1889.
Cholera	2·4	2·7
Small-pox	·4	·6
Fever	7·7	8 5
Bowel-complaints	2·0	2·7
Injury	·6	·8
Other causes	5·2	5·6

4. Small-pox, which appears to have prevailed noticeably in the Patna Town only, was attended with five deaths. Injury did not exhibit any local severity. Cholera, fever, bowel-complaints, and the maladies returned under the head of "Other causes" caused the highest mortality in the following Municipalities:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Puri ...	48·2	Darjiling ...	39 1	Darjiling ...	19·6	Bhagulpore ...	16 3
Bali ...	14 0	Jessore ...	30·6	Puri ...	10·5	Puri ...	12 6
Howrah ...	2·3					Monghyr ...	9·9

5. In relation to *Sex, Class* and *Age* the mortality of the week was distributed as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	18·1	Christians	6·6	Under 1 year ...	158·7
Females	18·7	Hindus	19·3	1 and under 5 years ..	27·8
Ratio of male deaths to every 100 female deaths	104	Mahomedans ...	16·4	5 „ 10 „ ...	13 6
				10 „ 15 „ ...	6 4
				15 „ 20 „ ...	14 0
				20 „ 30 „ ...	10 3
				30 „ 40 „ ...	12·1
				40 „ 50 „ ...	14 4
				50 „ 60 „ ...	15 3
				60 years and upwards ...	36·1

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 17th June 1889.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 1st June 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan ...	18,963	16,117	35,080	5	8	13	7·6	12·2	19·8	62	...	.	2	2	.	3	7	...		3·0	3·0	...	4·6	10·7	9·2	1	6	2·9	19·5	16
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	4	11	10·8	6·2	17·0	175	3	1	1	2	.	6	13	4·6	1·5	1·5	3·1		9·3	20·1	13·9	6	7	18·4	21·9	85
Hughli ...	Hughli and Chinsurah ...	19,179	19,539	38,718	6	11	17	8·0	14·8	22·8	54	1	...	2	1		1	5	1·3	...	2·7	1·3	...	1·3	6·7	13·4	1	4	2·7	10·6	25
Serampore ...	Serampore ...	13,559	12,937	26,496	4	2	6	7·9	3·9	11·8	200	...	..		2	...	5	7	...	...		3·9	...	9·8	13·7	37·3	5	2	19·2	8·0	250
	Utterpara ...	3,046	2,464	5,510	2	2	4	18·8	19·8	37·7	100	...	.	.	...	...	3	3	...	...	..		...	28·3	28·3	18·8	1	2	17·1	42·2	50
Howrah ...	Howrah ...	53,153	37,660	90,813	9	9	18	5·1	5·1	10·3	100	4		12	3	1	4	24	2·3	...	6·8	1·7	·6	2·3	13·7	16·6	15	9	14·7	12·4	166
	Bali ...	7,836	6,979	14,815		5	5	.	17·5	17·5	No male birth.	4	.		...	...	2	6	14·0	...	...	..	...	7·0	21·1	21·1	4	2	26·5	14·9	200
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	1	3	4	1·9	5·7	7·6	33	1	...	3	...	2	4	10	1·9	...	5·7	...	3·8	7·5	18·9	20·8	4	6	15·7	22·0	66
	Ranaghat ...	4,028	4,655	8,683	1		1	6·0	...	6·0	No female birth.	...	...	1		...	.	1	...	...	6·0	...	...	.	6·0	6·0	...	1	...	11·2	No male death.
	Santipore ...	13,708	15,979	29,687	1	1	2	1·7	1·7	3·5	100	1	...	2	...	.	.	3	1·7	...	3·5	...	...	...	5·3	38·5	1	2	3·8	6·5	50
Jessore ...	Jessore ...	4,830	3,665	8,495	.	.		.	...	..	......	..	...	5	..	...	...	5	..	...	30·6	.	.	...	30·6	6·1	1	4	10·8	56·8	25
Rajshahye ...	Rampore Beauleah ...	10,766	9,025	19,791	9	7	16	23·6	15·4	42·0	128	1	...	4		..	...	5	2·6	...	10·5	...	...	...	13·1	13·1	3	2	14·5	11·5	150
Darjiling ...	Darjiling* ...	5,029	2,947	7,976	2	5	7	13·0	32·6	45·6	40	...		6	3	...	...	9	...	...	39·1	19·6	...	...	58·7	... ...	5	4	51·7	70·6	125
Dacca ...	Dacca ...	42,782	37,379	80,161	8	6	14	5·2	3·9	9·1	133		1	7	4	...	12	24	..	·6	4·5	2·6	..	7·8	15·6	13·6	16	8	19·4	11·1	200
	Narainganj ...	7,605	4,956	12,561	4	2	6	16·5	8·3	24·8	200	...	...	...	...	...	1	1	...	...	...	...	...	4·1	4·1	4·1	1	...	6·8	...	No female death.
Chittagong ...	Chittagong ...	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	...	...	2	2	...	1	5	...	...	4·7	4·7	..	2·3	11·7	25·8	4	1	15·6	5·9	400
Tipperah ...	Comillah ...	8,153	5,353	13,506	3	3	6	11·5	11·5	23·1	100	1	...	2	..	1	3	7	3·8	...	7·7	...	3·8	11·5	26·9	23·1	3	4	19·1	38·9	75
Patna ...	Patna City ...	78,762	81,475	160,237	11	8	19	3·6	2·6	6·2	137	5	5	14	5	...	3	32	1·6	1·6	4·5	1·6	...	1·0	10·4	18·2	12	20	7·9	12·8	60
Gya ...	Gya ...	38,290	37,831	76,121	14	17	31	9·6	11·6	21·2	82	2	.	23	1	1	11	38	1·4	...	15·7	·7	·7	7·5	26·0	36·9	22	16	29·9	22·0	137
Shahabad ...	Arrah ...	20,960	22,505	43,465	4	2	6	4·8	2·4	7·2	200	..	...	8			1	9	.	...	9·6		.	1·2	10·8	9·6	3	6	7·4	13·9	50
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	7	2	9	8·5	2·4	10·9	350	3	..	12	5	.	2	22	3·6	...	14·6	6·1	...	2·4	26·8	19·5	8	14	18·0	37·0	57
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	14	18	32	11·0	14·2	25·2	77	...		23	5	1	6	35		.	18·1	3·9	·8	4·7	27·5	37·0	12	23	18·5	37·0	52
Sarun ...	Chupra ...	26,044	27,205	53,249	8	3	11	7·8	2·9	10·7	266	.	1	7	..	1	4	13	...	1·0	6·8	..	1·0	3·9	12·7	13·7	7	6	14·0	11·5	116
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	12	12	24	10·8	10·8	21·7	100		...	7		.	18	25	...	...	6·3	...	...	16·3	22·6	20·8	16	9	28·1	16·8	177
Monghyr ...	Monghyr ...	28,154	29,366	57,520	16	5	21	14·5	4·5	19·0	320	1	...	11	2	3	11	28	·9	...	9·9	1·8	2·7	9·9	25·3	21·7	15	13	27·7	23·0	115
Purneah ...	Purneah ...	8,463	6,553	15,016	1		1	3·4	..	3·4	No female birth.	...	...	1	...	1	...	2	..	...	3·4	...	3·4	...	6·9	17·3	1	1	6·1	7·9	100
Poori ...	Poori ...	13,247	11,537	24,784	6	8	14	12·6	16·8	29·4	75	23		3	5	2	6	39	48·2	...	6·3	10·5	4·2	12·6	81·8	50·4	26	13	102·1	58·6	200
	Total ...	555,685	515,457	1,071,142	157	145	302	7·6	7·0	14·7	108	50	8	158	42	13	107	378	2·4	·4	·7	2·0	·6	5·2	18·4	20·9	193	185	18·1	18·7	144

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be ...

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		Deaths among—					Ratio per 1,000 of Population per Annum.					Deaths.										Ratio per 1,000 of Population per Annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	6	1	...	...	...	15.2	5.1			1	...	1	...	1	2	1	1		...	78.8	...	22.3	...	16.6	13.1	7.5	11.8	...	...
Midnapore	Midnapore		12	1	...	...		24.1	7.2	...	...	1		1			1	4	1	1	4	70.0	...	13.9	...	...	7.1	37.5	14.0	25.2	113.7
Hughli	Hughli and Chinsurah		4	1	...		...	6.6	7.6	...	...	...	1	...	...	...	1	2	...	...	1	...	19.5	...	...	...	6.8	14.8	...	...	20.7
Serampore	Serampore		5	2	...		...	10.3	110.9	...	...	2	2	...	...	...			1	1	1	146.5	57.6	...	...	...	...	...	15.4	27.2	37.4
	Utterpara	...	3	...	...	...	...	29.3		...	...	3	...	...	...	...	...	...		...	...	968.9	...		...	...	...	...	...	...	...
Howrah	Howrah	...	17	7	...	...	...	13.0	17.7	...		5	3	2	1	2	5	2	2	...	2	126.0	28.2	16.5	7.9	14.2	11.5	5.4	8.8	...	27.7
	Bali	...	6	...	...	...	...	23.3		...		2	...		...		1	1	2		...	287.3	...	...	...	...	15.5	18.6	53.7	...	...
Nuddea	Kishnaghur	...	7	3	...	...		19.5	18.8	...		3	...	1	...		2	2	...	...	2	314.5	...	15.1	...	...	21.6	24.3	...	...	60.2
	Ranaghat	...	1		...		...	7.1						...	...	...	...		...	1	...	...	...	...	...	...	...	...	...	71.8	...
	Santipore	...	2	1	...	...	...	5.0	5.8	...	...	1	...		...	...			1	1	...	61.5	...	...	...	...	...	...	14.8	22.6	...
Jessore	Jessore	...	2	3	...	...	...	23.1	40.8		...		1	1	...	1	...	1	1	...	...	...	105.3	65.6	...	71.0	...	34.0	49.5	...	...
Rajshahye	Rampore Beauleah		1	4		...	...	5.2	21.2	...	...	3		1	...	...	...		...		1	381.2	...	25.0	...	...	...	...	...	...	54.0
Darjiling	Darjiling	1	8	...	...		46.5	90.6		...	...	1		...	1	1	4	1		...	1	429.8	...	...	106.6	81.3	104.0	36.3	...	...	307.7
Dacca	Dacca		15	9	...	...	...	19.4	11.9	...	...	1	2	1	1	1	7	6	1		4	27.4	14.1	5.2	6.5	7.1	23.8	26.8	6.2	...	37.3
	Narainganj			1	...	...	...	...	8.4	...		1	...	...	...	...	...	...	...	...	...	186.4	...	...	...	...	...	...	...	...	...
Chittagong	Chittagong	...	1	4		...	...	9.0	13.6	...		...	...	...			1	...	1	2	1	...	...	...	...	...	11.2	...	23.0	95.9	65.3
Tipperah	Comillah		2	5	...	...	...	17.5	35.2	...		2	2	...	...	1	2	...	...	...	...	350.2	79.5	...	...	41.3	37.7	...	...	...	...
Patna	Patna City		26	6	...	...	...	11.4	7.6	...		7	6	2	2	4	2	1	1	1	6	84.5	21.4	6.2	7.2	18.6	3.6	2.2	2.8	3.7	22.6
Gya	Gya		29	9	...			25.1	9.1	...	...	7	9		3	1	3	3	3	3	6	203.4	73.7	...	23.2	9.9	10.6	12.3	16.0	23.7	60.6
Shahabad	Arrah	...	7	2	...		...	11.7	8.4	...	...	1	3	...	1		1	1	...	...	2	40.4	35.3	...	11.5	...	6.6	8.1	...	...	36.1
Mozufferpore	Mozufferpore		16	6	...	...	...	27.7	25.0	...	...	6	1	6	...	...	1	4	2	2	...	526.7	12.9	69.3	...	...	6.1	29.8	20.8	32.0	...
Durbhanga	Durbhanga	...	27	8	...	...	...	29.0	23.7	...	...	10	7	5	1	2	2	2	...	2	4	534.0	47.8	33.2	9.4	25.9	7.8	9.3	...	23.7	65.1
Sarun	Chupra	...	9	4		...	...	11.4	17.3	...	...	2	3	1	...	1	...	1	1	3	1	72.0	29.4	8.4	...	14.6	...	6.4	8.8	37.0	14.9
Bhagulpore	Bhagulpore	...	19	6	...	...	...	24.8	18.1	...	...	7	4		...	3	1	...	2	3	5	304.9	38.4	...	...	37.3	4.8	...	16.5	30.6	72.2
Monghyr	Monghyr		21	7		...		24.4	29.0	...	...	8	3	2	...		2	4	7		2	280.1	25.1	14.7	...	...	10.1	23.3	57.1	...	29.0
Purneah	Purneah	...		2		...	...	...	15.4		...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	56.1	...	...
Poori	Poori	...	38	1	...	...	...	50.8	247.6	...	...	4	3	5	2	4	4	5	6	3	3	686.5	86.8	116.0	55.4	111.9	39.4	64.2	93.9	69.9	86.4
	TOTAL	1	284	93			6.6	19.3	16.4			78	50	29	12	22	42	41	35	23	46	155.7	27.8	13.6	6.4	14.0	10.3	12.1	14.4	15.3	36.1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 17th June 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for Irrigation up to the end of April 1889.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Details of areas leased: Five years, all crops.	Five years, kharif.	Annual leases: Kharif.	Rabi.	Sugar-cane.	Bhadoi.	Hot-weather.	Total.	Grand Total.	Rainfall, 1889-90: During the month.	Up to end of month.	Rainfall, 1888-89: During the month.	Up to end of month.	Remarks.
			C. ft.	C. ft.	C. ft.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres	Inches.	Inches.	Inches.	Inches	
Orissa	Cuttack	Taldunda, 1st Reach.	1,342	...	19	...	...	...	9,125	...	103	14	...	...	117	9,242	0·15	0·15	...	...	
		Taldunda, 2nd Reach.	566	77																	
		Machgong	766	30	15	...	...	...	26,914	...	165	...	...	...	165	27,079	0·10	0·10	...	...	
		Kendrapara	1,067	285·45	255·16	93	67	...	44,432	...	2,020	26	...	...	2,046	46,478	0·08	0·08	...	...	
		Gobri	372·82	26·31	26·31	2	...	...	1,939	...	94	...	...	...	94	2,033	0·72	0·72	...	...	
		Gobri extension	648	25·68	13·76	...	...	...	1,499		11	...	...	...	11	1,510	No gauge fixed.				
		Pattamoondi	885	76·81	51·13	5	2	...	8,953	...	248	...	...	...	248	9,201	...	...	...	...	
		High Level, Range I.	608	111·41	4·91	269	...	...	16,247	...	267	2	...	...	269	16,516	1·70	1·70	...	...	
		High Level, Range II.	727·16	84·34	...	...	...	...	1,822	...	30	...	...	...	30	1,852	...	...	...	...	
	Balasore	High Level, Range III.	727·16	...	...	89	108	...	23,110	...	...	88	...	...	88	23,198	0·30	0·30	...	...	
		Total ...	...	...	...	458	177	...	134,041	...	2,938	130	...	...	3,068	137,109	...	...	...	...	
	Total of the corresponding period of last year.		...	...	...	...	...	...	45,716	...	...	...	...	...	...	45,716	...	...	...	...	
South-Western.	Midnapore...	Midnapore	1,411	60	...	...	...	...	47,6[illegible]5	...	...	...	...	...	...	47,635	1·00	1·00	2·79	2·79	25 days discharging.
		Panchkoorah	522	7	...	...	...	...	3,077	...	...	...	...	...	...	3,077	0·93	0·93	1·95	1·95	12 days ditto.
	Howrah	Tidal Reaches, Ranges I and II.	...	...	...	...	...	...	284	...	...	...	...	...	...	284	...	...	...	...	
		Total ...	...	...	...	...	...	...	50,996	...	...	...	...	...	...	50,996	...	...	...	...	
	Total of the corresponding period of last year.		...	...	...	...	...	...	32,287	...	...	...	...	...	...	32,287	...	...	...	...	
S[illegible]	Shahabad ...	Western Main	4,342	1,212	7	191	239	11,079	...	...	...	71	...	147	218	11,297	...	...	...	...	
		Buxar	1,226	348	190	3,491	2,145	34,203	...	...	...	1,518	...	2,124	3,642	36,845	...	...	...	...	
		Arrah	2,000	658	647	17,903	16,[illegible]53	80,052	...	...	...	2,140	...	7,758	9,898	89,950	...	...	...	...	
	Patna and Gya.	Eastern Main	1,466	429	...	13	12	550	...	...	...	13	...	...	13	563	...	...	...	...	
		Patna				296	324	30,047	...	...	...	218	...	...	218	30,265	...	...	...	...	
		Total ...	...	...	...	21,894	18,973	154,931	...	...	...	3,960	...	10,029	13,989	168,920	...	...	...	...	
	Total of the corresponding period of last year.		...	...	...	...	...	179,158	...	...	...	2,557	...	6,890	9,447	188,605	...	...	...	...	
		Grand Total ...	...	...	...	22,352	19,150	154,931	185,037	...	2,938	4,090	...	10,029	17,057	357,025	...	...	...	...	
	Grand Total of the corresponding period of last year ..		...	...	...	...	...	179,158	78,003	...	...	2,557	...	6,890	9,447	266,608	...	...	...	...	

CALCUTTA;
The 18th June 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of April 1889.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 32 MILES. MACHGOONG " 4 "

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
34	1. Grain ...	86	215	301	16,530	301	16,530	
...	2. Cotton ...	......	......	......	......	......	......	
...	3. Oilseeds ...	......	......	......	......	......	......	
...	4. Salt ...	......	......	......	......	......	......	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
268	7. Building materials	......	3,605	3,605	9,776	3,577	3,726	
...	8. Miscellaneous ...	...	......	......	......	......	......	
11	9. Fuel ...	......	100	100	467	100	467	
16 rafts.	10. Timber	......	243 No.	243 No.	313	243 No.	313	
24 "	11. Bamboos	......	26,600 "	26,600 "	418	26,600 "	418	
313 and 40 rafts.	12. Total ...	86	3,920 & 26,843 No.	4,006 & 26,843 No.	27,504	3,978 & 26,843 No.	21,454	
50 and 52 rafts.	13. Total of same month last year.	6	679 & 22,981 No.	685 & 22,981 No.	13,096	679 & 22,981 No.	12,996	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	14	299	313
15. Total number of boats plying passenger No.	11	......	11
15½. Total number of empty boats No.	333	30	363
16. Total registered tonnage, cargo Tons	147	6,938	7,085
17. Total registered tonnage, passenger Tons	297	......	297
17½. Total registered tonnage, empty boats Tons	3,220	303	3,523
18. Ton-mileage ...	50,675	1,03,495	1,54,170
19. Estimated value of cargo Rs.	9,482	17,291	26,773
20. Number of passengers No.	145	......	145
21. Rafts, bamboos "	......	26,600	26,600
22. Do., bullahs "	......	243	243
23. Estimated value of rafts Rs.	......	731	731
24. Tollage on boats "	282-15-3	994-3-0	1,277-2-3
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	42-2-0	42-2-0
27. Total tollage on boats per ton-mile Rs.	......	......	P. 0-0-1·58
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	......

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,319	4	3
Total tollage of same month last year ...	373	1	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ..	113	5	0
2. Tollage per month ...	1,319	4	3
3. Total ...	1,432	9	3
4. Amount credited in the accounts of the month ...	1,405	8	0
5. Balance due at the end of the month ...	27	1	3

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
216	1. Grain ...	948	1,093	2,041	1,41,580	2,041	1,41,580	
...	2. Cotton ...	......	...	......	......	......		
16	3. Oilseeds ...	20	144	164	16,450	164	16,450	
19	4. Salt ...	58	64	122	10,510	122	10,510	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal	......	...	......	......	......	......	
99	7. Building materials	11	990	1,001	24,080	456	16,730	
139	8. Miscellaneous ...	821	317	1,138	2,23,320	1,138	2,23,320	
3	9. Fuel ...	26	25	51	120	51	120	
11 rafts.	10. Timber ..	No. 9	1,684 No.	1,693 No.	3,820	1,693 No.	3,820	
47 "	11. Bamboos ...	......	97,040 "	97,040 "	3,900	97,040 "	3,900	
492 & 58 rafts.	12. Total ...	1,884 & 9	2,633 & 98,724 No.	4,517 & 98,733 No.	4,23,780	3,972 & 98,733 No	4,16,430	
625 & 100 rafts.	13. Total of same month last year	1,880	4,151 & 93,824 No	6,031 & 93,824 No.	4,74,110	5 427 & 93,824 No.	4,72,120	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	273	219	492
15. Total number of boats plying passenger No.	53	62	115
15½. Total number of empty boats No.	200	309	509
16. Total registered tonnage, cargo Tons	3,271	4,197	7,468
17. Total registered tonnage, passenger Tons	1,306	1,605	2,911
17½. Total registered tonnage, empty boats Tons	1,357	1,274	2,631
18. Ton-mileage ...	177,894	231,824	409,718
19. Estimated value of cargo Rs.	2,40,260	1,75,800	4,16,060
20. Number of passengers No.	2,047	2,358	4,405
21. Rafts, bamboos "	......	97,040	97,040
22. Do., timbers "	9	1,684	1,693
23. Estimated value of rafts Rs.	30	7,690	7,720
24. Tollage on boats "	2,739-7-2	3,077-5-2	5,816-12-4
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	4-1-8	190-7-0	194-8-8
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·7
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-3-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	6,011	5	0
Total tollage of same month last year ...	6,983	10	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	4,424	15	5
2. Tollage per month ...	6,011	5	0
3. Total ...	10,436	4	5
4. Amount credited in the accounts of the month ...	3,881	9	3
5. Balance due at the end of the month ...	6,554	11	2

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
203	1. Grain ...	721	......	721	43,110	721	43,110	
3	2. Cotton ...	......	4	4	850	4	850	
9	3. Oilseeds ...	18	.....	18	1,560	18	1,560	
62	4. Salt ...	......	172	172	14,450	172	14,450	
...	5. Piece-goods ..	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
132	7. Building materials	109	937	1,046	1,200	118	940	
49	8. Miscellaneous ...	76	44	120	6,370	120	6,370	
9	9. Fuel ...	65	......	65	180	65	180	
8 rafts.	10. Timber ..	1,610 No.	..	1,610 No.	2,500	1,610 No.	2,500	
2 "	11. Bamboos ...	......	6,000 No.	6,000 "	150	6,000 "	150	
467 & 10 rafts.	12. Total ...	989 & 1,610 No.	1,157 & 6,000 No.	2,146 & 7,610 No.	70,370	1,218 & 7,610 No.	70,110	
488 & 1 raft.	13. Total of same month last year.	1,427	1,041 & 1,200 No.	2,468 & 1,200 No	68,490	1,720 & 1,200 No.	67,940	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	277	190	467
15. Total number of boats plying passenger No.	......	2	2
15½. Total number of empty boats No.	199	174	373
16. Total registered tonnage, cargo Tons	1,903	2,594	4,497
17. Total registered tonnage, passenger Tons	......	4	4
17½. Total registered tonnage, empty boats Tons	481	648	1,129
18. Ton-mileage ...	36,211	33,218	69,429
19. Estimated value of cargo Rs.	47,270	20,450	67,720
20. Number of passengers No.	......	13	13
21. Rafts, bamboos "	......	6,000	6,000
22. Do., timber "	1,610	......	1,610
23. Estimated value of rafts Rs.	2,500	150	2,650
24. Tollage on boats "	576-7-6	349-1-3	925-8-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	89-6-3	5-10-0	95-0-3
27. Total tollage on boats per ton-mile Rs.	......	...	0-0-2 6
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	1-4-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,020	9	0
Total tollage of same month last year	999	4	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	211	1	6
2. Tollage per month ...	1,020	9	0
3. Total ...	1,231	10	6
4. Amount credited in the accounts of the month	681	11	0
5. Balance due at the end of the month ...	549	15	6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
149	1. Grain ...	587½	2	589½	23,275	511½	18,913	
......	2. Cotton ...	......	......	......	......	..	......	
32	3. Oilseeds ..	......	35	35	2,652	35	2,652	
14	4. Salt ...	9	42	51	6,376	51	6,376	
1	5. Piece-goods ...	......	2½	2½	700	2½	700	
......	6. Metal ...	......	......	......	......	......	...	
116	7. Building materials	......	1,205	1,205	1,488	......	......	
13	8. Miscellaneous ...	5	48½	53½	6,359	53½	6,359	
2	9. Fuel ...	......	12	12	30	5	13	
31 rafts	10. Timber ...	......	1,949= 11,694 c. ft.	11,694 c. ft.	1,040	No. 283= 1.698 c. ft.	849	
81 „	11. Bamboos ...	......	25,625 No.	25,625 No.	768	25,625	768	
327 & 112 rafts.	12. Total ...	601½	1.347 & 11,694 c. ft. 25,625 No.	1,948½ & 11,694 c. ft. 25,625 No.	42,688	658½ & 1,698 c.ft. 25,625 No.	36,630	
222 & 33 rafts.	13. Total of same month last year.	276 & 21 No.	1,045 & 8,445 No.	1,321 & 8,466 No.	27,663	369 & 8,443 No.	26,200	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	151	176	327
14½. Total number of empty boats No.	218	98	316
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	1,203	2,694	3,897
16. Total registered tonnage, cargo boats Tons	601½	1,347	1,948½
16½. Total registered tonnage, empty boats Tons	1,170	9,098	10,268
17. Total registered tonnage, passenger Tons	......	......	......
17½. Total registered tonnage, empty boats Tons.	30,142	31,158	64,300
18 Ton-mileage	......		......
19. Estimated value of cargo Rs.	23,831	17,049	40,880
20. Number of passengers No.	327½	276½	604
21. Rafts, bamboos „	......	25,625	25,625
22. Do., bullahs c. ft.	......	11,694	11,694
23. Estimated value of rafts Rs.		1,808	1,808
24. Tollage on boats „	305-4-3	480-8-6	785-12-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts „	......	51-7-0	51-7-0
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·34
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-7-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	837	3	9
Total tollage of same month last year ...	557	15	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	837	3	9
3. Total ...	837	3	9
4. Amount credited in the accounts of the month ...	837	3	9
5. Balance due at the end of the month ...	......		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
99	1. Grain ...	410½	......	410½	18,467	410½	18,467	
...	2. Cotton ...	......	......	......	......	......	......	
2	3. Oilseeds ...	......	5½	5½	652	5½	652	
4	4. Salt ...	8½	4½	13	1,662	13	1,662	
...	5. Piece-goods ...	......	......	......	......	......	......	
..	6. Metal ...	......	......	...	...	......	......	
67	7. Building materials	......	281½	281½	1,613	......	......	
4	8. Miscellaneous ...	......	26	26	3,625	26	3,625	
...	9. Fuel ...	......	...	... ..	......	......	......	
...	10. Timber ...	......	......	......	......	......	......	
2 rafts	11. Bamboos ..	......	100 No.	100 No.	5	100 No.	5	
176 & 2 rafts.	12. Total ...	419	317½ 100 No.	736½ 100 No.	26,024	455 100 No.	24,411	
88 & 2 rafts.	13. Total of same month last year.	120½ & 150 No.	302½ & 13 No.	423 & 163 No.	12,188	161½ & 163 No.	11,275	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	101	75	176
14½. Total number of empty boats No.	79	73	152
15. Total number of boats plying passengers No.	......	......	.. ...
15½. Total number of empty boats No.	......	......	......
16. Total registered tonnage, cargo boats Tons	838	634	1,472
16½. Total registered tonnage, empty boats Tons	529	252	781
17. Total registered tonnage, passenger Tons	......	......	......
17½. Total registered tonnage, empty boats No.	......	......	......
18. Ton-mileage ...	14,805	8,885	23,690
19. Estimated value of cargo Rs.	19,629	6,390	26,019
20. Number of passengers No.	257½	278½	536
21. Rafts, bamboos "	......	100	100
22. Do., bullahs c. ft.	... ..	... .	......
23. Estimated value of rafts Rs.	... ..	5	5
24. Tollage on boats "	236-6-3	131-0-6	407-6-9
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	......	0-1-0	0-1-0
27. Total tollage on boats per ton-mile Rs.	... .	.. ...	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	......	... ..	0-1-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	407	7	9
Total tollage of same month last year	173	7	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	......		
2. Tollage per month ...	407	7	9
3. Total ...	407	7	9
4. Amount credited in the accounts of the month ..	407	7	9
5. Balance due at the end of the month ...	..		

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
...	1. Grain ...	......	......	......	......	......	......	
...	2. Cotton ...	......	....	......	......	......	......	
1	3. Oilseeds ...	......	1	1	360	1	360	
1	4. Salt ...	2	......	2	165	2	165	
...	5. Piece-goods ...	......	......	......	......	......	......	
...	6. Metal ...	......	......	......	......	......	......	
...	7. Building materials	......	......	......	......	......	......	
28	8. Miscellaneous ...	...	19	19	978	19	978	
1	9. Fuel ...	......	5	5	35	5	35	
7 rafts	10. Timber ...	......	No. 224= 1,344 c. ft.	1,344 c. ft.	149	No. 224= 1,344 c. ft.	149	
31 ,,	11. Bamboos ..	....	7,200 No.	7,200 No.	288	7,200 No.	288	
31 & 38 rafts.	12. Total ...	2	25 1,344 c.ft. 7,200 No.	27 1,344 c ft. 7,200 No.	1,975	27 1,344 c ft. 7,200 No	1,975	
...	13. Total of same month last year	.. ..	....	......	......	......	......	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1	30	31
14½. Total number of empty boats No.	31	5	36
15. Total number of boats plying passenger No.	......	......	......
15½. Total number of empty boats No.	......	......	......
16. Total registered tonnage, cargo boats Tons	4	50	54
16½ Total registered tonnage, empty boats Tons	30	5½	35½
17. Total registered tonnage, passenger Tons	......	......	......
17½. Total registered tonnage, empty boats Tons	......	......	......
18. Ton-mileage ...	204	621	825
19. Estimated value of cargo Rs.	165	1,373	1,538
20. Number of passengers No.	......	......	...
21. Rafts, bamboos ,,	......	7,200	7,200
22. Do., bullahs c.ft.	......	1,344	1,344
23. Estimated value of rafts Rs.	......	437	437
24 Tollage on boats ,,	6-12-6	3-0-6	9-13-0
25. Compounded tollage on boats ... Rs.	......	.....	......
26 Tollage on rafts ,,	...	4-15-4	4-15-4
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2 28
28. Total tollage on rafts per 100 cubic feet Rs.	..	......	0-1-0

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	14 12 4
Total tollage of same month last year ..	......

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	......
2. Tollage per month ...	14 12 4
3. Total ...	14 12 4
4. Amount credited in the accounts of the month ...	14 12 4
5. Balance due at the end of the month ...	......

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,425	1. Grain ...	6,910	652	7,562	3,59,133	7,562	3,59,133	Canal 1st Reach closed for silt clearance from 25th April.
...	2. Cotton ...	......	......	......	......	...	......	
38	3. Oilseeds ...	83	229	312	33,436	312	33,436	
86	4. Salt ...	......	895	895	80,966	895	80,966	
10	5. Piece-goods ...	......	43	43	1,21,100	43	1,21,100	
11	6. Metal	20	89	109	88,950	109	88,950	
14	7. Building materials	47	14	61	758	61	758	
539	8. Miscellaneous ...	1,808	807	2,615	2,60,764	2,615	2,60,764	
28	9. Fuel ...	86	119	205	3,446	205	3,446	
53 rafts.	10. Timber ...	16,297 c. ft.	162 c. ft.	16,459 c. ft	4,541	16,459 c. ft	4,541	
2	11. Bamboos ...	1,300 "	......	1,300 "	130	1,300 "	130	
2,151 & 55 rafts.	12. Total ...	8,954 & 17,597 c. ft.	2,848 & 162 c. ft.	11,802 & 17,759 c. ft	9,53,224	11,802 & 17,759 c. ft.	9,53,224	
1,272 & 33 rafts.	13. Total of same month last year.	3,787 & 9,009 c. ft.	3,509 & 1,382 c. ft.	7,296 & 10,391 c. ft.	7,08,257	7,296 & 10,391 c. ft.	7,08,257	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,764	387	2,151
15. Total number of boats plying passenger No.	455	616	1,071
15½. Total number of empty boats No.	516	1,183	1,699
16. Total registered tonnage, cargo boats Tons	23,480	5,613	29,093
17. Total registered tonnage, passenger boats Tons	4,036	3,612	7,648
17½. Total registered tonnage, empty boats Tons	2,217	5,287	7,504
18. Ton-mileage	6,11,268	2,83,237	8,94,505
19. Estimated value of cargo Rs.	4,20,006	5,28,547	9,48,553
20. Number of passengers No.	4,665	9,270	13,935
21. Rafts, bamboos, c. ft	1,300	......	1,300
22. Do., bullahs "	16,297	162	16,459
23. Estimated value of rafts Rs	4,359	312	4,671
24. Tollage on boats "	9,324-3-9	3,770-13-6	13,095-1-3
25. Compounded tollage on boats Rs	......	......	...
26. Tollage on rafts "	139-9-3	1-0-0	140-9-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-12-7

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	13,235	10	6
Total tollage of same month last year ...	6,062	13	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month...	5,884	2	7
2. Tollage per month ...	13,235	10	6
3. Total ...	19,119	13	1
4. Amount paid into Treasury during the month ..	13,483	8	3
5. Balance due at the end of the month ..	5,636	4	10

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
382	1. Grain ...	3,493	36	3,529	1,45,837	3,529	1,45,837	
...	2. Cotton ...	...	......	......	......	......	...	
3	3. Oilseeds ...	39	......	39	3,300	39	3,300	
46	4. Salt ...	......	380	380	41,650	380	41,650	
16	5. Piece-goods ...	......	48	48	33,375	48	33,375	
6	6. Metal ...	25	7	32	7,285	7	1,085	
24	7. Building materials	101	40	141	2,812	141	2,812	
679	8. Miscellaneous ...	1,125	474	1,599	82,704	1,599	82,704	
20	9. Fuel ...	35	142	177	1 142	141	892	
2 rafts	10. Timber ...	......	74 c. ft.	74 c.ft.	60	74 c.ft.	60	
4 "	11. Bamboos ...	1,200 c ft.	105 "	1,305 "	72	1,305 "	72	
1,176 & 6 rafts.	12. Total ...	4,818 1,200 c ft.	1,127 & 179 c. ft.	5,945 & 1,379 c. ft.	3,18,237	5,884 & 1,379 c. ft.	3,11,787	
452 & 2 rafts.	13. Total of same month last year.	1,446	721 & 79 c. ft.	2,167 & 79 c. ft.	1,45,071	2,167 & 79 c ft	1,45,071	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	554	622	1,176
15. Total number of boats plying passenger No.	36	45	81
16. Total registered tonnage, cargo boats Tons	9,764	5,286	15,050
17. Total registered tonnage, passenger boats Tons	341	365	706
18. Ton-mileage	2,04,803	1,15,583	3,20,386
19. Estimated value of cargo Rs.	1,71,954	1,46,151	3,18,105
20. Number of passengers No.	1,059	1,664	2,723
21. Rafts, bamboos c. ft.	1,200	105	1,305
22. Do., bullahs "	......	74	74
23. Estimated value of rafts Rs.	60	72	132
24. Tollage on boats "	3,585-9-3	2,011-3-9	5,596-13-0
25. Compounded tollage on boats Rs.	......	......	......
26. Tollage on rafts "	3-0-0	1-3-3	4-3-3
27. Total tollage on boats per ton-mile Rs	......	......	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-4-10

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,601	0	3
Total tollage of same month last year .	2,221	1	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,509	15	0
2. Tollage per month ...	5,601	0	3
3. Total ...	7,110	15	3
4. Amount paid into Treasury during the month ...	5,041	7	3
5. Balance due at the end of the month	2,069	8	0

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Private. Value. Rupees.	Remarks.
3	1. Grain ...	......	11	11	508	11	508	
...	2. Cotton ...	......	.....	.....	......	......	.....	
13	3. Oilseeds ...	....	140	140	12,900	140	12,900	
2	4. Salt ...	22	......	22	2,125	22	2,125	
8	5. Piece-goods ...	......	44	44	14,650	44	14,650	
...	6. Metal ...	......	...	...	...	...	...	
2	7. Building materials	4	9	13	100	9	50	
24	8. Miscellaneous ...	24	113	137	13,868	137	13,868	
...	9. Fuel	......	...	......	...	......	......	
Rafts	10. Timber ...	......	241	241	1,386	241	1,386	
6	11. Bamboos. By boat	52	......	52	2,090	52	2,099	
	„ raft	... ..	427	427	5,740	427	5,740	
57	12. Total ...	102	985	1,087	53,367	1,083	53,317	
179	13. Total of same month last year.	718	4,063	4,781	7,48,963	4,579	7,41,356	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	22	35	57
15. Total number of boats plying passenger No.	1	1	2
15½. Total number of empty boats No.	14	15	29
16. Total registered tonnage, cargo boats Tons	266	489	755
17. Total registered tonnage, passenger boats Tons	27	27	54
17½. Total registered tonnage, empty boats Tons	56	77	133
18. Ton-mileage ...	12,073	52,858	64,931
19. Estimated value of cargo Rs.	20,960	25,281	46,241
20. Number of passengers No.	80	40	120
21. Rafts, bamboos „	...	64,024	64,024
22. Do., bullahs c. ft.	......	18,093	18,093
23. Estimated value of rafts Rs.	......	7,126	7,126
24. Tollage on boats „	89-12-9	303-5-6	393-2-3
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150 0-0
26. Tollage on rafts „	......	208-1-3	208-1-3
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-1·6
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-4-1

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	751	3	6
Total tollage of same month last year ...	3,021	13	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ..	1,135	0	6
2. Tollage per month ...	751	3	6
3. Total ...	1,886	4	0
4. Amount credited in the accounts of the month	1,842	12	3
5. Balance due at the end of the month ...	43	7	9

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
29	1. Grain ...	8	387	395	27,217	395	27,217	
......	2. Cotton ...	1	......	1	1,620	1	1,620	
7	3. Oilseeds ...	9	105	114	11,223	114	11,223	
28	4 Salt ...	323	......	323	30,209	323	30,209	
......	5. Piece-goods ...	48	4	52	72,750	52	72,750	
......	6. Metal ...	......	9	9	15,630	9	15,630	
18	7. Building materials	5	160	165	1,049	80	401	
90	8. Miscellaneous ...	113	567	680	2,26,554	627	2,20,796	
3	9. Fuel ...	26	......	26	258	3	38	
...	10. Timber ...	......	4	4	236	4	236	
Raft.	11. Bamboos ...	......	1,351	1,351	12,990	1,351	12,990	
"	11. Bullahs	......	925	925	7,093	925	7,093	
"	11. Firewood, pieces	......	280	280	535	280	535	
175	12. Total ...	533	3,792	4,325	4,07,364	4,164	4,00,738	
262	13. Total of same month last year.	747	4 468	5,215	3,54,230	5,161	3,53,500	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	48	127	175
15. Total number of boats plying passenger No.	2	3	5
15½. Total number of empty boats No.	93	19	112
16. Total registered tonnage, cargo boats Tons	936	2,032	2,968
17. Total registered tonnage, passenger boats Tons	95	80	175
17½. Total registered tonnage, empty boats Tons	368	77	445
18. Ton-mileage ...	69,596	99,549	1,69,145
19. Estimated value of cargo Rs.	1,08,978	2,77,768	3,86,746
20. Number of passengers No.	1,245	1,050	2,295
21. Rafts, bamboos c.ft.	......	2,02,765	2,02,765
22. Do., bullahs "	......	69,400	69,400
22½. Do., firewood "	......	21,044	21,044
23. Estimated value of rafts Rs.	......	20,618	20,618
24. Tollage on boats "	324-5-0	814-14-9	1,139-3-9
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts "	......	666-1-9	666-1-9
27. Total tollage on boats per ton-mile Rs.	......	......	1·81 pies.
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-3-7

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,261	5	6
Total tollage of same month last year ...	2,540	3	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	100	7	9
2. Tollage per month ...	2,261	5	6
3. Total ...	2,361	13	3
4. Amount credited in the accounts of the month	2,230	3	[illegible]
5. Balance due at the end of the month ...	131	9	[illegible]

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	REMARKS.
17	1. Grain ...	60	278	338	21,152	338	21,152	
1	2. Cotton ...	6	......	6	1,000	6	1,000	
3	3. Oilseeds ...	......	11	11	7,300	11	7,300	
...	4. Salt ...	2	......	2	313	2	313	
1	5. Piece-goods ...	9	......	9	7,460	9	7,460	
...	6. Metal ...	......	......	......	......	......	......	
14	7. Building materials	76	113	189	725	7	20	
20	8. Miscellaneous ...	71	149	220	20,038	219	19,998	
10	9. Fuel ...	186	......	186	2,720	......	......	
Rafts.	10. Timber ...	......	394	394	4,023	394	4,023	
Rafts.	11. Bamboos ...	......	785	785	8,714	785	8,714	
66	12. Total ...	410	1,730	2,140	73,445	1,771	69,980	
103	13. Total of same month last year	95	2,235	2,330	1,76,281	2,245	1,71,917	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	31	35	66
15. Total number of boats plying passenger No.	10	8	18
15½. Total number of empty boats No.	14	30	44
16. Total registered tonnage, cargo boats Tons	475	1,900	2,375
17. Total registered tonnage, passenger boats Tons	248	216	464
17½. Total registered tonnage, empty boats Tons	68	87	155
18. Ton-mileage ...	14,462	17,729	32,191
19. Estimated value of cargo Rs.	20,898	39,810	60,708
20. Number of passengers No.	859½	633	1,492½
21. Rafts, bamboos c. ft.	......	117,790	117,790
22. Do., bullahs "	......	29,564	29,564
23. Estimated value of rafts Rs.	......	12,737	12,737
24. Tollage on boats "	148-0-0	194-15-9	342-15-9
25. Compounded tollage on boats Rs.	75-0-0	139-0-0	214-0-0
26. Tollage on rafts "	......	516-6-6	516-6-6
27. Total tollage on boats per ton-mile Rs.	......	......	0-0-3·32
28. Total tollage on rafts per 100 cubic feet Rs.	......	......	0-5-7

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,073	6	3
Total tollage of same month last year ...	1,009	13	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	38	10	9
2. Tollage per month ...	1,073	6	3
3. Total ...	1,112	1	0
4. Amount credited in the accounts of the month ...	948	15	6
5. Balance due at the end of the month ...	163	1	6

ABSTRACT FOR THE MONTH OF APRIL 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal	Traffic, 1889-90. During the month.	Traffic, 1889-90. To end of the month.	Traffic, 1888-89. During the month.	Traffic, 1888-89. To end of the month.	Remarks.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Circle.					
Taldunda Canal System ...	1,319 4 3	1,319 4 3	373 1 9	373 1 9	
Kendrapara Canal System	6,011 5 0	6,011 5 0	6,983 10 0	6,983 10 0	
High Level, Range I ...	1,020 9 0	1,020 9 0	999 4 3	999 4 3	
Ditto, " II ...	837 3 9	837 3 9	557 15 3	557 15 3	
Ditto, " III	407 7 9	407 7 9	173 7 6	173 7 6	
Jajepore Canal	14 12 4	14 12 4	......	...	
Total Orissa Circle ...	9,610 10 1	9,610 10 1	9,087 6 9	9,087 6 9	
South-Western Circle.					
Midnapore Canal ...	13,235 10 6	13,235 10 6	6,062 13 0	6,062 13 0	
Hidgellee Tidal Canal ...	5,601 0 3	5,601 0 3	2,221 1 0	2,221 1 0	
Total South-Western Circle	18,836 10 9	18,836 10 9	8,283 14 0	8,283 14 0	
Sone Circle.					
Patna Canal System ...	751 3 6	751 3 6	3,021 13 6	3,021 13 6	
Arrah ditto ...	2,261 5 6	2,261 5 6	2,540 3 0	2,540 3 0	
Buxar ditto ...	1,073 6 3	1,073 6 3	1,009 13 6	1,009 13 6	
Total Sone Circle ...	4,085 15 3	4,085 15 3	6,571 14 0	6,571 14 0	
Grand Total ...	32,533 4 1	32,533 4 1	23,943 2 9	23,943 2 9	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1889-90. During the month. Passengers.	Goods.	Total receipts.	Traffic, 1889-90. To end of the month. Passengers.	Goods.	Total receipts.	Traffic, 1888-89. During the month. Passengers.	Goods.	Total receipts.	Traffic, 1888-89. To end of the month. Passengers.	Goods.	Total receipts.
	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
Orissa Circle.												
High Level ...	855	2,380	1,081 0 10	855	2,380	1,081 0 10	331	477	493 2 11	331	477	493 2 11
Total Orissa Circle ...	855	2,380	1,081 0 10	855	2,380	1,081 0 10	331	477	493 2 11	331	477	493 2 11

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1889-90. During the month.	Earnings, 1889-90. To end of the month.	Earnings, 1888-89. During the month.	Earnings, 1888-89. To end of the month.	Remarks.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	10,691 10 11	10,691 10 11	9,580 9 8	9,580 9 8	
Midnapore Canal ...	13,235 10 6	13,235 10 6	6,062 13 0	6,062 13 0	
Hidgellee Tidal Canal ...	5,601 0 3	5,601 0 3	2,221 1 0	2,221 1 0	
Sone Canals ...	4,085 15 3	4,085 15 3	6,571 14 0	6,571 14 0	
Total ...	33,614 4 11	33,614 4 11	24,436 5 8	24,436 5 8	

CALCUTTA,

18th June 1889.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of May 1889.

Date.	River Ganges.									
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.	
Distance. Miles	From Allahabad 86		From Allahabad 134	From Mirzapur 48	From Benares 90		From Benares 177	From Buxar 87	From Benares 287	From Dinapur 110
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
			Below zero.						Below zero	
1st	0·50	206·72	1·48	195·34	1·67	170·72	7·00	141·23	5·20	96·56
2nd	0·50	206·72	1·50	195·30	1·58	170·63	7·00	141·23	5·35	96·52
3rd	0·42	206·64	1·54	195·26	1·58	170·63	7·00	141·23	5·33	96·52
4th	0·33	206·55	1·58	195·22	1·50	170·55	7·00	141·23	5·39	96·47
5th	0·33	206·55	1·63	195·17	1·50	170·55	7·00	141·23	5·17	96·68
6th	0·33	206·55	1·63	195·17	1·42	170·47	7·00	141·23	5·18	96·77
7th	0·33	206·55	1·63	195·17	1·33	170·38	7·00	141·23	5·08	96·77
8th	0·33	206·55	1·46	195·34	1·33	170·38	7·10	141·33	4·96	96·89
9th	0·58	206·80	1·42	195·38	1·25	170·30	7·20	141·43	4·92	96·93
10th	0·67	206·89	1·42	195·38	1·25	170·30	7·20	141·43	4·83	97·02
11th	0·67	206·89	1·42	195·38	1·25	170·30	7·20	141·43	4·75	97·10
12th	0·67	206·89	1·46	195·34	1·25	170·30	7·20	141·43	4·79	97·06
13th	0·58	206·80	1·50	195·30	1·17	170·22	7·30	141·53	4·67	97·18
14th	0·50	206·72	1·58	195·22	1·17	170·22	7·30	141·53	4·50	97·35
15th	0·33	206·55	1·63	195·17	1·17	170·22	7·30	141·53	4·33	97·52
16th	0·33	206·55	1·58	195·22	1·17	170·22	7·30	141·53	4·25	97·60
17th	0·33	206·55	1·58	195·22	1·17	170·22	7·30	141·53	4·21	97·64
18th	0·33	206·55	1·67	195·13	1·08	170·13	7·30	141·53	4·21	97·64
19th	0·25	206·47	1·75	195·05	1·08	170·13	7·20	141·43	4·25	97·60
20th	0·17	206·39	1·83	194·97	1·08	170·13	7·20	141·43	4·25	97·61
21st	0·17	206·39	1·88	194·92	1·08	170·13	7·20	141·43	4·29	97·56
22nd	0·17	206·39	2·00	194·80	1·08	170·13	7·10	141·33	4·21	97·64
23rd	0·08	206·30	2·00	194·80	1·00	170·05	7·00	141·23	4·43	97·52
24th	0·08	206·30	2·08	194·72	1·00	170·05	7·00	141·23	4·38	97·47
25th	0·17	206·39	2·17	194·63	1·00	170·05	7·10	141·33	4·42	97·43
26th	0·08	206·30	2·00	194·80	1·00	170·05	7·10	141·33	4·33	97·52
27th	0·25	206·47	2·00	194·80	1·00	170·05	7·10	141·33	4·33	97·52
28th	0·17	206·39	2·08	194·72	1·00	170·05	7·10	141·33	4·38	97·47
29th	0·17	206·39	2·25	194·55	1·00	170·05	7·00	141·23	4·42	97·43
30th	0·17	206·39	2·29	194·51	0·92	169·97	7·00	141·23	4·46	97·39
31st	0·08	206·30	2·33	194·47	0·83	169·88	7·10	141·33	4·38	97·47

Date.	River Ganges.						River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
Distance. Miles	From Benares 381	From Monghyr 94	From Benares 471	From Sahebgunge 90	From Benares 591	From Rampore Beauleah 120						
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
	Below zero		Below zero.									
1st	1·75	66·25	0·19	41·81	5·17	14·11	0·63	34·37	3·83	8·13	5·30	154·06
2nd	1·75	66·25	0·21	41·79	5·42	14·36	0·63	34·37	4·00	8·30	5·60	154·36
3rd	1·75	66·25	0·21	41·79	5·50	14·44	0·63	34·37	3·75	8·05	6·10	154·86
4th	1·75	66·25	0·19	41·81	5·42	14·36	0·58	34·32	3·75	8·05	7·10	155·86
5th	1·67	66·33	0·19	41·81	5·17	14·11	0·58	34·32	3·63	7·93	11·60	160·36
6th	1·67	66·33	0·17	41·83	5·42	14·36	0·58	34·32	3·38	7·68	14·00	162·76
7th	1·75	66·25	0·17	41·83	5·42	14·36	0·54	34·28	3·21	7·51	15·40	164·16
8th	1·83	66·17	0·15	41·85	5·50	14·44	0·54	34·28	2·54	6·84	15·40	164·16
9th	1·83	66·17	0·15	41·85	6·25	15·19	0·54	34·28	3·04	7·34	14·30	163·06
10th	1·75	66·25	0·13	41·87	7·25	16·19	0·54	34·28	2·38	6·68	13·20	161·96
11th	1·67	66·33	0·13	41·87	8·08	17·02	0·54	34·28	2·21	6·51	12·30	161·06
12th	1·50	66·50	0·11	41·89	8·42	17·36	0·50	34·24	2·50	6·80	12·60	161·36
13th	1·50	66·50	0·11	41·89	8·42	17·36	0·50	34·24	2·92	7·22	14·00	162·76
14th	1·50	66·50	0·08	41·92	8·50	17·44	0·50	34·24	3·42	7·72	16·20	164·96
15th	1·50	66·50	0·08	41·92	8·58	17·52	0·50	34·24	3·46	7·76	17·60	166·36
16th	1·42	66·58	0·08	41·92	8·75	17·69	0·83	34·57	4·17	8·47	18·40	167·16
17th	1·33	66·67	0·11	41·89	9·00	17·94	0·71	34·45	4·59	8·88	18·40	167·16
18th	1·33	66·67	0·11	41·89	9·67	18·61	0·63	34·37	4·25	8·55	19·00	167·76
19th	1·33	66·67	0·11	41·89	10·00	18·94	0·58	34·32	4·58	8·83	19·80	168·56
20th	1·42	66·58	0·08	41·92	10·50	19·44	0·54	34·28	4·08	8·38	20·90	169·66
21st	1·58	66·42	0·08	41·92	10·75	19·69	0·54	34·28	3·17	7·47	20·40	169·16
22nd	1·25	66·75	0·08	41·92	10·83	19·77	0·54	34·28	2·13	6·43	19·00	167·76
23rd	1·17	66·83	0·06	41·94	11·00	19·94	0·63	34·37	2·08	6·38	17·60	166·36
24th	1·25	66·75	0·06	41·94	11·08	20·02	0·67	34·41	2·17	6·47	16·17	164·93
25th	1·33	66·67	0·04	41·96	11·08	20·02	0·71	34·45	2·33	6·63	15·60	164·36
26th	1·33	66·67	0·02	41·98	10·75	19·69	0·71	34·45	2·42	6·72	14·50	163·26
27th	1·33	66·67	0·02	41·98	10·33	19·27	0·67	34·41	3·00	7·30	13·70	162·46
28th	1·43	66·58	0·02	41·98	10·00	18·94	1·08	34·82	3·33	7·63	13·00	161·76
29th	1·42	66·58	0·04	41·96	9·75	18·69	1·13	34·87	3·38	7·68	12·40	161·16
30th	1·42	66·58	0·04	41·96	9·50	18·44	1·17	34·91	3·59	7·88	12·10	160·86
31st	1·42	66·58	0·04	41·96	9·25	18·19	1·21	34·95	3·83	8·13	12·20	160·96

CALCUTTA;
The 18th June 1889.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 15th June 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 15th June 1889.			Week ending Saturday, the 16th June 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	220	73,094	1,116	434	1,03,790	1,920
Jute	16	7,550	151	8	4,575	98
Firewood	194	85,665	1,392	91	38,475	583
Other articles	700	2,16,960	3,916	917	2,49,185	3,893
Total ...	1,130	3,83,869	6,605	1,450	3,96,025	6,494

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of March 1889, as compared with the same month of the previous year.

Staples.	1889. Up.	1889. Down.	1888. Up.	1888. Down.	Total. 1889.	Total. 1888.	Increase	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	9,468	4,170	11,900	3,520	13,638	15,420	...	1,782
Cotton, raw	7	366	7	355	373	362	11	
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece goods—								
1.—European—								
a.—In bales and bundles	1,793	142	1,430	185	1,935	1,615	320	..
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2,033	2,707	2,056	4,979	4,740	7,935	..	3,195
5.—Others	626	7,844	1,185	7,347	8,470	8,532	...	62
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	6	502	13	548	508	561	...	53
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	...	838	...	667	838	667	171	
b.—Unscrewed	31	5,179	...	5,018	5,210	5,018	192	
2.—Gunny bags and cloth	290	1,149	199	968	1,439	1,167	272	
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	1,177	140	751	139	1,317	890	427	..
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	312	4	394	12	316	406	..	90
3.—Others	149	13	230	14	162	244	......	82
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	84	8,090	247	4,435	8,174	4,682	3,492	......
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	171	127	139	667	298	806	..	508
3.—Others	611	537	464	627	1,148	1,091	57	......
Railway plant and rolling-stock	4,560	3,673	2,343	816	8,233	3,159	5,074	...
Salt	3,130	25	1,572	30	3,155	1,602	1,553	
Sugar—								
1.—Drained	931	2,078	830	1,698	3,009	2,528	1,081	......
2.—Undrained								
Tea—								
1.—Foreign	1	17	2	21	18	23	......	5
2.—Indian								
Wood—								
1.—Timber	116	142	145	137	258	282	..	24
2.—Firewood	1,533	....	1,739	155	1,533	1,894	..	361
Tobacco	30	936	36	1,680	966	1,716	..	750
All other articles of merchandise—								
1.—Unmanufactured	4,415	2,154	3,697	1,324	6,569	5,021	1,548	....
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections)	577	......	716	..	577	716		139
Total	32,051	41,433	30,995	35,342	73,484	66,337	14,198	7,051

Increases.

	Tons.
Cotton piece-goods ...	320
Due to ordinary traffic fluctuations.	
Metals ...	427
Includes tea garden machinery.	
Oilseeds ...	3,492
Due to a favourable market in Calcutta.	
Railway plant ...	5,074
For repairs and renewals.	
Salt ...	1,553
From Chitpore, Sealdah shows a decrease.	
Sugar ...	1,081
The increase is a general one on the eastern section.	

Decreases.

	Tons.
Coal ...	1,782
Due to sufficiency of stock for railway and flotilla purposes.	
Rice ...	3,195
Due to partial failure of the crops in Bengal.	
Betelnuts ...	508
Due principally to decreased despatches from the C. P. T. Railway upwards.	
Firewood ...	361
Decreased despatches from Canning.	
Tobacco ...	750
Decreased despatches from Sara and Domar.	

CALCUTTA, *the 13th June* 1889.

F. P. QUINLAN, *Examiner of Accounts.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th June 1889, on 1,513¾ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*300,245	*2,75,072 5 0	28,35,893 20	6,57,088 1 0	19,766 4 0	9,51,926 10 0	62,022½	105,417¾	167,440
Or per mile of railway ...	... ..	181 11 11		434 2 5	13 1 0	628 15 4	.....	......	......
For previous 22 weeks of half-year	5,874,502	65,11,412 7 0	6,22,95,767 10	1,38,61,720 11 4	3,87,417 11 8	2,07,60,550 14 0	1,436,540¼	2,183,246	3,619,792¼
Total of 23 weeks ...	6,174,747	67,86,484 12 0	6,51,31,660 30	1,45,18,808 12 4	4,07,183 15 8	2,17,12,477 8 0	1,498,568¼	2,288,663¾	3,787,232¼
Comparison.									
Total for corresponding week of previous year .. .	230,750	2,22,359 2 7	27,92,851 10	6,16,132 6 9	16,498 8 7	8,54,990 1 11	71,965	94,593	166,558
Per mile of railway corresponding week of previous year	. .	146 14 3	... ..	407 0 5	10 14 5	564 13 1	... ..	......	......
Total to corresponding date of previous year	6,187,802½	68,42,223 8 5	6,59,10,096 30	1,52,90,244 2 10	4,87,593 9 3	2,26,20,061 4 6	1,519,393	2,435,145	3,954,538

* The increase in coaching traffic is almost general, principally at stations in the A. District, and is presumably due to the "Dusheharrah" bathing festival and marriage ceremonies.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs
1,513¾	8,54,990	565	1,513¾	9,51,927	629	1,513¾	96,46,404	637	1,513¾	95,90,585	634	.....	55,819

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 8th June 1889, on 57⅛ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	12,053	5,302 13 0	34,381 30	2,213 9 0	37 4 0	7,553 10 0	775	1,282	2,057
Or per mile of railway . ..	211	92 11 4	601 10	38 11 2	0 10 5	132 0 11	......	......	.....
For previous 22 weeks of half-year	311,605	1,63,954 1 9	9,22,201 20	55,219 14 0	1,081 7 10	2,20,255 7 7	39,908¼	15,123	55,031¼
Total for 23 weeks ...	323,658	1,69,256 14 9	9,56,583 10	57,433 7 0	1,118 11 10	2,27,809 1 7	40,683¼	16,405	57,088¼
Comparison.									
Total for corresponding week of previous year	10,058	4,166 4 0	40,382 20	2,527 3 0	19 4 3	6,712 11 3	1,707	687	2,394
Per mile of railway corresponding week of previous year ..	176	72 13 4	706 0	44 2 11	0 5 5	117 5 8	..	.	......
Total to corresponding date of previous year	324,868	1,64,789 7 6	9,67,776 10	63,376 15 0	904 13 3	2,29,071 3 9	40,367	16,298	56,665

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57⅛	6,713	117	57⅛	7,554	132	57⅛	90,036	157	57⅛	91,137	159	1,101	... ..

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 8th June 1889, on 12 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,584	601 3 0	18,150 0	317 7 0	9 6 0	928 0 0	242½	251	493½
Or per mile of railway ...	..	50 1 7	......	26 7 3	0 12 6	77 5 4	...	...	...
For previous 22 weeks of half-year ...	64,165	10,897 7 9	3,96,927 30	9,459 11 0	200 12 8	20,566 15 5	7,366¾	3,349¼	10,716
Total for 23 weeks ...	67,749	11,498 10 9	4,15,077 30	9,777 2 0	219 2 8	21,494 15 5	7,609¼	3,600¼	11,209½
Comparison.									
Total for corresponding week of previous year ...	3,079	512 7 11	13,296 10	537 10 0	13 11 3	1,063 13 2	325	168	493
Per mile of railway corresponding week of previous year	......	42 11 4	.....	44 12 10	1 2 3	88 10 5	......	......	......
Total to corresponding date of previous year ...	73,424½	12,425 15 0	5,02,134 10	13,226 14 0	238 7 9	25,891 4 9	6,898	4,441	11,339

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
12	1,064	89	12	928	77	12	13,418	112	12	10,007	83	......	3,411

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th June 1889 on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs A. P.	Mds. S.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ...	25,535	6,015 14 0	8,081 10	315 5 0	8 0 0	7,239 3 0	914	54	968
Or per mile of railway ...	..	310 13 3	.....	14 2 8	0 5 9	325 5 8	...	.....	...
For previous 22 weeks of half-year ...	501,840	1,32,424 15 0	2,09,392 20	7,576 15 0	157 0 10	1,40,158 14 10	20,256	1,335	21,591
Total for 23 weeks ...	527,375	1,39,340 13 0	2,17,473 30	7,892 4 0	165 0 10	1,47,398 1 10	21,170	1,389	22,559
Comparison.									
Total for corresponding week of previous year ...	17,399	4,344 9 5	7,413 30	288 1 0	1 8 0	4,634 2 5	907	61	968
Per mile of railway corresponding week of previous year	... ..	195 4 2	.. .	12 15 2	0 1 1	208 4 5	......	......	......
Total to corresponding date of previous year ...	511,897½	1,34,223 2 4	1,88,882 0	6,810 12 0	164 7 0	1,41,228 5 4	20,977	1,727	22,704

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,034	208	22½	7,239	325	22½	65,375	294	22½	66,233	298	858	......

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 1st June 1889, on 673 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	118,470	61,130 0 0	5,85,380 0	80,610 0 0	23,140 0 0	1,64,880 0 0	21,270	21,642	42,912
Or per mile of railway ...	176	91 0 0	870 0	120 0 0	†19 0 0	230 0 0	......	......	......
For previous 21 weeks of half-year	3,071,324	15,37,374 0 0	1,06,28,816 0	17,58,523 0 0	3,56,795 0 0	*36,52,693 0 0	447,832	501,635	949,467
Total for 22 weeks ...	3,189,794	15,98,504 0 0	1,12,14,196 0	18,39,133 0 0	3,79,935 0 0	38,17,572 0 0	469,102	523,277	992,379
Comparison.									
Total for corresponding week of previous year	b173,987	63,940 0 0	c8,55,871 0	75,959 0 0	20,663 0 0	1,60,562 0 0	21,270	22,062	43,332
Per mile of railway corresponding period of previous year ...	258	95 0 0	1,272 0	113 0 0	†16 0 0	224 0 0	......	......	......
Total to corresponding date of previous year	3,126,417	15,49,491 0 0	1,21,26,512 0	16,98,318 0 0	3,39,049 0 0	35,86,858 0 0	480,621	526,904	1,007,525

* Audited up to week ending 20th April 1889.
† Excluding steamer earnings.
b Including 51,000 monthly season ticket.
c Ditto 400,000 maunds of materials for revenue.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,60,562	239	673	1,64,880	245	673	13,00,036	215	673	*14,11,706	233	1,11,670	......

* Audited up to week ending 20th April 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	24,140	8,650 0 0	47,110 0	3,220 0 0	50 0 0	11,920 0 0	3,597	2,075	5,672
Or per mile of railway	193	69 0 0	377 0	26 0 0	......	95 0 0	......	......	......
For previous 21 weeks of half-year	593,636	2,09,312 0 0	11,84,421 0	69,753 0 0	4,747 0 0	*2,83,812 0 0	74,568	43,027	117,595
Total for 22 weeks ...	617,776	2,17,962 0 0	12,31,531 0	72,973 0 0	4,797 0 0	2,95,732 0 0	78,165	45,102	123,267
Comparison.									
Total for corresponding week of previous year	†26,832	8,266 0 0	44,620 0	3,148 0 0	91 0 0	11,505 0 0	3,592	2,082	5,674
Per mile of railway corresponding period of previous year ...	223	66 0 0	357 0	25 0 0	1 0 0	92 0 0	......	......	......
Total to corresponding date of previous year	586,407	1,94,135 0 0	11,14,420 0	71,900 0 0	4,158 0 0	2,701,930 3 0	74,6[illegible]	44,294	118,894

* Audited up to week ending 20th April 1889.
† Includes 3,260 monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,505	92	125	11,920	95	125	1,03,447	92	125	*1,17,994	105	14,547	......

* Audited up to week ending 20th April 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st June 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	11,800	3,820 0 0	21,050 0	770 0 0	140 0 0	4,730 0 0	2,502	602	3,104
Or per mile of railway	137	44 0 0	245 0	9 0 0	2 0 0	55 0 0	......	......	......
For previous 21 weeks of half-year	311,610	98,667 0 0	2,04,650 0	20,202 0 0	3,372 0 0	*1,22,241 0 0	50,860	14,471	65,331
Total for 22 weeks ...	323,410	1,02,487 0 0	2,85,700 0	20,972 0 0	3,512 0 0	1,26,971 0 0	53,362	15,073	68,435
COMPARISON.									
Total for corresponding week of previous year	†14,038	3,722 0 0	19,153 0	682 0 0	217 0 0	4,621 0 0	2,502	792	3,294
Per mile of railway corresponding period of previous year* ...	163	43 0 0	223 0	8 0 0	3 0 0	54 0 0	......	......	......
Total to corresponding date of previous year	308,365	92,926 0 0	2,63,899 0	18,726 0 0	3,979 0 0	1,15,631 0 0	54,823	14,204	69,072

* Audited up to week ending 20th April 1889.
† Including monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,621	54	86	4,730	55	86	43,971	57	86	*46,171	60	2,200	......

* Audited up to week ending 20th April 1889.

ASSAM-BEHAR STATE RAILWAY.

PURNEAH SECTION.

Approximate Return of Traffic for week ended 1st June 1889, on 38 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,730	810 0 0	28,240 0	2,090 0 0	20 0 0	2,920 0 0	532	532	1,064
Or per mile of railway ...	72	21 0 0	743 0	55 0 0	1 0 0	77 0 0	...	......	...
For previous 21 weeks of half-year	62,002	22,757 0 0	5,77,516 0	41,604 0 0	3,358 0 0	*67,719 0 0	11,044	11,044	22,088
Total for 22 weeks ...	64,732	23,567 0 0	6,05,756 0	43,694 0 0	3,378 0 0	70,639 0 0	11,576	11,576	23,152
COMPARISON.									
Total for corresponding week of previous year	3,230	1,048 0 0	27,245 0	1,736 0 0	25 0 0	2,809 0 0	546	546	1,092
Per mile of railway corresponding period of previous year .	83	27 0 0	699 0	44 0 0	1 0 0	72 0 0	......	...	......
Total to corresponding date of previous year	69,266	23,349 0 0	6,27,221 0	45,548 0 0	943 0 0	69,840 0 0	12,012	12,012	24,024

* Audited up to week ending 20th April 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Behar State Railway.

Receipts for week ending 2nd June 1888.			Receipts for week ending 1st June 1889.			Total receipts from 1st April 1888 to 2nd June 1888.			Total receipts from 1st April 1889 to 1st June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
38	2,809	73	38	2,920	77	39	29,493	84	38	30,457	89	964	......

* Audited up to 20th April 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th June 1889, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,046	1,053 0 0	8,421 0	673 0 0	10 0 0	1,736 0 0	509	254	763
Or per mile of railway	112	39 0 0	309 0	25 0 0		64 0 0	......	......	.....
For previous 21 weeks of half-year ...	71,491	26,655 0 0	2,38,414 0	14,662 0 0	1,482 0 0	42,799 0 0	11,053	9,027	20,080
Total for 22 weeks ...	74,537	27,708 0 0	2,46,835 0	15,335 0 0	1,492 0 0	44,535 0 0	11,562	9,281	20,843
Comparison.									
Total for corresponding week of previous year	3,153	1,124 0 0	12,978 0	958 0 0	10 0 0	2,087 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	116	41 0 0	476 0	35 0 0	......	76 0 0	.....	.....	.....
Total to corresponding date of previous year ...	75,274	27,616 0 0	3,34,727 0	19,278 0 0	472 0 0	47,366 0 0	11,767	9,534	21,241

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,087	76	27¼	1,736	64	27¼	18,339	67	27¼	16,535	61	......	1,804

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th June 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 273 miles open ..	40,276	*a*17,063 0 0	2,30,371 0	19,376 0 0	4,236 0 0	40,675 0 0	4,393	6,078	10,471
Or per mile of railway ..	181	62 0 0	844 0	71 0 0	3 0 0	136 0 0*	...	...	...
For previous 21 weeks of half-year ...	943,419	3,52,240 0 0	35,56,528 0	3,27,587 0 0	77,619 0 0	7,57,446 0 0	115,963	122,419	238,382
Total for 22 weeks ...	992,695	3,69,303 0 0	37,86,899 0	3,46,963 0 0	81,855 0 0	7,98,121 0 0	120,356	128,497	248,853
Comparison.									
Total for corresponding week of previous year on 259 miles open	36,437	12,809 0 0	1,80,968 0	17,626 0 0	*b*8,580 0 0	39,015 0 0	5,917	7,333	13,250
Per mile of railway corresponding week of previous year .	141	49 0 0	699 0	68 0 0	23 0 0	140 0 0*	......	......	......
Total to corresponding date of previous year ..	990,388	3,82,330 0 0	45,05,731 0	4,85,042 0 0	82,972 0 0	9,50,344 0 0	141,530	176,730	318,260

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
a Increase due to "Ganga Daserah" bathing mela.
b Includes Rs. 5,715 as Sundries receipt.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 9th June 1888.			Receipts for week ending 8th June 1889.			Total receipts from 1st April 1888 to 9th June 1888.			Total receipts from 1st April 1889 to 8th June 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
259	39,015	151	273	40,075	149	259	3,92,563	152	273	3,91,789	144	....	774

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 25th May 1889	13,004
Corresponding week last year	13,926
Decrease	922
Receipts from 1st January to 25th May 1889	1,96,026
From 1st January to 26th May 1888	2,05,710
Decrease	9,684
	Miles.
Miles open week ending 25th May 1889	51
Corresponding week last year	51

	Rs.	A.	P.
Receipts per mile open week ending 25th May 1889	254	15	8
Corresponding week last year	273	1	0
Decrease	18	1	4

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 1st June 1889...	10,269
Corresponding week last year	13,327
Decrease	3,058
Receipts from 1st January to 1st June 1889...	2,06,295
From 1st January to 2nd June 1888	2,19,037
Decrease	12,742
	Miles.
Miles open week ending 1st June 1889	51
Corresponding week last year	51

	Rs.	A.	P.
Receipts per mile open week ending 1st June 1889	201	5	8
Corresponding week last year	261	5	0
Decrease	59	15	4

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 19th June 1889.

REGISTERED No. 29.

No. 26 of 1889.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JUNE 26, 1889.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

CONTENTS.

IRRIGATION OPERATIONS IN BENGAL FOR THE KHARIF SEASON 1888-89.

No. 956*I*.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

IRRIGATION.

Dated Calcutta, the 25th June 1889.

RESOLUTION.

READ—

Statements Nos. I, II, and III, showing irrigation operations for kharif 1888-89 of canals in Bengal.

OBSERVATIONS.—The area irrigated during the kharif season of 1888-89 was 476,776 acres against 425,503 acres in 1887-88, showing an increase of 12·0 per cent.

2. The increase was in the districts irrigated by the Orissa and Sone Canals, and was due chiefly to the failure of the rainfall towards the end of the season which brought canal water into acute demand. Of the five districts irrigated by the two canal systems named, Gya alone shows a slight decrease in the area returned as irrigated.

On the Midnapore Canal, however, where there was the same failure of the October rains and the same pressing demand for irrigation, a noticeable decrease of 10,334 acres has taken place in the area irrigated, and must be ascribed to the insufficiency of the supply obtained from the Cossye River, which is chiefly dependent on the local rainfall.

Notwithstanding the failure of the October rains, the registers show that the whole rainfall of the kharif season was greater for each district than in the season of 1887-88.

3. In Orissa and Midnapore the only kharif crop irrigated is rice, while on the Sone Canals, though the chief crop is rice, sugarcane and hot-weather crops also are irrigated.

4. In the statement following, a comparison by canals is made of the kharif areas irrigated during the seasons of 1887-88 and 1888-89 :—

Canals.		Kharif Season.		More.	Loss.
		1887-88.	1888-89.		
		Acres.	Acres.	Acres.	Acres.
Orissa ...	Taldunda	26,688	41,339	14,651	......
	Kendrapara ... ... } High Level ... ... }	72,189	111,870	39,681	......
Midnapore ...	... ...	65,482	55,053	......	10,379
Sone ...	Patna	54,757	55,746	989	......
	Arrah	122,287	134,463	12,176	......
	Buxar	82,246	72,466	......	9,780
Sarun ...	... ...	1,904	5,839	3,935	......
	Total ...	425,503	476,776	71,432	20,159
	Net increase ...	......	51,273	......	......

The falling off on the Midnapore canal, the irrigation of which is almost entirely confined to the Midnapore district, has been explained above. On the Buxar canal, between which and the Arrah canal the irrigation of the Shahabad district is divided, there was a falling off of 7,620 acres in five-year leases, of which some 5,000 acres were kharif, and a further falling off of over 6,000 acres in annual kharif leases. The failure to obtain the renewal of leases was largely due to the prevailing hope that the recent agitation and the appointment of a Committee of enquiry would be followed by a reduction of rates, and probably took place chiefly in villages under "bhaoli" tenure, which pay rent in kind. In consequence, when the pressure came in October, many of these villages were neither prepared to receive the water, nor could it be given to them in time.

5. Under sugarcane there was an increase of 11 per cent., and under rice one of about 13 per cent., while under hot-weather crops there was a decrease of some 2,100 acres, or about 15 per cent.

ORDER.—Ordered that a copy of this Resolution and of the statements Nos. I, II, and III be submitted to the Government of India, in the Public Works Department, for information; also that copies be forwarded to the Commissioners of the Orissa, Burdwan, and Patna Divisions; the Collectors of Cuttack, Midnapore, Patna, Shahabad, Gya, and Sarun; the Superintending Engineers of the Orissa, South-Western, and Sone Circles; and the Examiner of Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,

Offg. Joint-Secy. to the Govt. of Bengal.

No. I.—Kharif Statement.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE KHARIF SEASON, 1888-89.

Comparative Statement of Irrigation and Rainfall in Canal Districts of Bengal.

District.	Area in acres.	Culturable, acres.	Area irrigated.		1888-89 as compared with 1887-88.		Rainfall for four months.										Remarks.
			1887-88.	1888-89.	Increase.	Decrease.	July.		August.		September.		October.		Total.		
							1887.	1888.	1887.	1888.	1887.	1888.	1887.	1888.	1887.	1888.	
			Acres.	Acres.	Acres.	Acres.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
Cuttack	Information not available.	Information not available.	89,167	129,631	40,464	......	11·43	8·87	7·95	21·65	6·55	8·42	2·79	1·04	28·75	39·18	Average rainfall of the 11 stations in the Cuttack district.
Balasore			9,710	23,578	13,868	......	12 83	14·14	11·19	21·36	3·92	8·03	2·20	1·50	30·14	40·04	Average rainfall at Bhuddruck and Acquapadda stations.
Midnapore			64,885	54,551	......	10,334	17·74	21·30	10·19	21·96	7·56	7·37	3·24	0·79	38·73	51·42	
Hooghly			547	502	......	45	...	...	...	...	...	...	...	...	...	...	No rain-gauge stations on the Tidal Reaches of the Midnapore Canal.
Gya	3,015,680	2,356,000	29,348*	27,600	......	1,748	6·75	16 06	6 30	21·50	3 95	7·40	3 30	Nil	20·30	44 96	Rainfall at Daudnugger.
Patna	1,329,920	1,039,000	25,409*	28,146	2,737	......	8·64	18·13	5·25	14·23	3 51	4·59	3·20	Nil	20·60	36·95	Rainfall at Bankipore.
Shahabad	2,806,400	2,192,500	204,533*	206,929	2,396	......	7 29	17·90	5 93	17 74	5·96	5 58	5·89	0·43	25 07	41·65	Rainfall at Arrah station.
Sarun	1,680,000	1,312,500	1,904†	5,839	3,935	......	8 35	11·79	9·82	11·44	9·07	7·18	5 53	...	32·77	30·41	Rainfall at Gopalganj station.
							11·40	14 43	6·95	12 32	2 88	5·34	4·95	...	26·18	32 09	Rainfall at Chupra.
Total ...	......	......	425,503	476,776	63,400	12,127	...	...	...	...	...	...	...	...	...	...	

Net increase... 51,273

Note.—The figures for 1887-88 as now given are correct.
* Include 13,855 acres hot weather irrigation.
† Includes 205 acres indigo irrigation.

Calcutta,
The 21st June 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

No. II.—Kharif Statement.

IRRIGATION OPERATIONS OF FASL KHARIF, 1888-89.

Statement in acres of crops irrigated in Canal Districts.

Nature of Crops.		Cuttack.	Balasore.	Midnapore.	Hooghly.	Gya.	Patna.	Shahabad.	Sarun.	Total.
Garden and orchards		......	......	......	......	......	......	......	......	......
Sugarcane		......	......	......	......	2,560	1,614	18,938	8	23,120
Cereals ...	Wheat	......	......	......	......	......	......	......	......	......
	Barley	......	......	......	......	......	......	......	......	......
	Rice	129,631	23,578	54,551	502	24,790	26,485	175,820	5,674	441,031
	Miscellaneous	......	......	......	......	250	47	402	123	822
Pulse ...	Gram, &c.	......	......	......	......	......	......	......	......	......
	Miscellaneous (bhadoi) ...	......	......	......	......	......	......	......	......	......
Fodder crops ...	Grass, lucerne	......	......	......	......	......	......	......	......	......
Fibres ...	Cotton	......	......	......	......	......	......	......	......	......
Dyes ...	Indigo	......	......	......	......	......	......	......	34	34
	Turmeric, &c.	......	......	......	......	......	......	......	......	......
Drugs ...	Opium	......	......	......	......	......	......	......	......	......
	Tobacco, &c.	......	......	......	......	......	......	......	......	......
Oilseeds ...	Mustard, &c.	......	......	......	......	......	......	......	......	......
	Castor	......	......	......	......	......	......	......	......	......
Miscellaneous		......	......	......	......	......	......	......	......	......
Hot weather		......	......	......	......	......	......	11,769	......	11,769
	Total, 1888-89 ...	129,631	23,578	54,551	502	27,600	28,146	206,929	5,839	476,776
	Total, 1887-88 ...	89,167	9,710	64,885	547	29,348	25,409	204,533	1,904	425,503

Calcutta,
The 21st *June* 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

No. III.—KHARIF STATEMENT.

IRRIGATION OPERATIONS OF FASL KHARIF, 1888-89.

Statement in acres of crops irrigated by Canals in Canal Divisions.

Nature of crops.		Taldunda Canal.	Kendrapara Canal.	High Level Canal, Range I.	High Level Canal, Range II.	High Level Canal, Range III.	Midnapore Canal.	Patna Canal.	Arrah Canal.	Buxar Canal.	Sarun Canal.	Total.	Remarks.
		Mahanuddy.	Brahminee-Byturnee.		Acquapadda-Jajepore.		Cossye.	Eastern-Sone.	Arrah.	Buxar.	Gunduck.		
Garden and orchards	...	......	......		......		......	......	......	......	......	......	
Sugarcane	...	......	......		......		......	4,174	12,378	6,560	8	23,120	
Cereals	Wheat	......	......		......		......	......	......	......	......	......	
	Barley	......	......		......		......	......	......	......	......	......	
	Rice	41,339	86,278		25,592		55,053	51,275	1,13,006	62,814	5,674	441,031	
	Miscellaneous (bhadoi)	......	......		......		......	297	99	303	123	822	
Pulse	Gram, &c.	......	......		......		......	......	......	......	......	......	
	Miscellaneous	......	......		......		......	......	......	......	......	......	
Fodder crops	Grass, lucerne	......	......		......		......	......	......	......	......	......	
Fibres	Cotton	......	......		......		......	......	......	......	......	......	
Dyes	Indigo	......	......		......		......	......	......	......	34	34	
	Turmeric, &c.	......	......		......		......	......	......	......	......	......	
Drugs	Opium	......	......		......		......	......	......	......	......	......	
	Tobacco, &c.	......	......		......		......	......	......	......	......	......	
Oilseeds	Mustard, &c.	......	......		......		......	......	......	......	......	......	
	Castor	......	......		......		......	......	......	......	......	......	
Miscellaneous	...	......	......		......		......	......	......	......	......	......	
Hot-weather	...	......	......		......		......	......	8,980	2,789	......	11,769	
Total, 1888-89	...	41,339	86,278		25,592		55,053	55,746	1,34,163	72,466	5,839	476,776	
Total, 1887-88	...	26,688	60,963		11,226		65,432	54,757	1,22,287	82,216	1,904	425,503	

CALCUTTA,
The 21st June 1889.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

ADMINISTRATION REPORT OF THE METEOROLOGICAL DEPARTMENT, 1888-89.

THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

The 21*st June* 1889. *Secretary to the Government of Bengal.*

THE Bengal Meteorological Department has been under my control during the whole of the year under review, Mr. John Eliot, the permanent Meteorological Reporter to the Government of Bengal, having continued to officiate for Mr. H. F. Blanford as Meteorological Reporter to the Government of India.

The method of work in the Department has been changed rather materially during the year. These changes are entirely due to the general reorganisation of the whole of the Meteorological Department in India, which is being carried out by Mr. Eliot under the orders of the Government of India.

These changes, in so far as they concern the Bengal Meteorological Department, may be classed as follows:—

(i). The retention of 8 A.M. as the hour for the observations daily telegraphed by the coast stations round the Bay of Bengal for the Daily Weather Report of the Storm Signal Service.

(ii). The introduction from 1st January 1889 of the hour of 8 A.M. for the general time of observation at the inland stations in Bengal instead of the former hour of observation at 10 A.M. This change has included all those meteorological stations formerly classed as provincial observatories.

(iii). The retention of 10 and 16 hours' observations in addition to the 8 hours in the case of 15 stations. These observatories are those from which observations have been obtained for a series of years, and which are known to have submitted accurate and trustworthy returns, and which therefore give very reliable average results for comparison with the data of each succeeding year and which will thus enable a strict and scientific discussion to be carried out of each year's meteorology.

(iv). The classification of the observatories according to the various hours of observation, and the redistribution of allowances to the observers according to the number of sets of observations which have to be taken and the instruments observed.

(v). The introduction of arrangements for the collection of special meteorological observations during storms and the full recognition of the value of these observations by special payment for them; the amount to be paid being entirely dependent on the amount and quality of information submitted by the observers.

(vi). The amalgamation of the Bengal Meteorological office with the India Meteorological office.

All the changes marked ii to iv have been effected from 1st January 1889. Up to this date, therefore, the hour of observations at the majority of the imperial stations continued to be 10 and 16 hours, and in the case of the provincial stations 10 A.M. only.

In the case of the coast stations round the Bay of Bengal reporting daily observations for the Daily Report of the Storm Signal Service, 8 A.M. was adopted as an additional hour for observation, as a tentative measure, from 1st April 1888. A special allowance of Rs. 4 was granted to each of the

observatories thus recording the extra 8 hours' observations from 1st April to 31st December 1888, when these special allowances ceased.

This experimental change in the hour of observations from 10 A.M. to 8 A.M. was found during the nine months of its trial to answer admirably. The time of 8 A.M. for observations was indeed found to fulfil all the advantages it had been believed to possess, and which were set forth by Mr. Eliot in the proposal for its adoption. It enabled the reports printed daily at Simla by the Government of India to be issued practically a day earlier than when 10 A.M. had been adopted as the hour of observation. It has also enabled the changes going on over the land to be compared more rigorously with those over the sea as represented in the logs of ships. It has also enabled me to publish the Daily Bay of Bengal Weather Report between 10-30 and 11 A.M. instead of between 3 and 4 P.M. as heretofore, and thus it has fully answered my anticipations in the way of the possibility of issuing early warnings of the probability of stormy weather.

In view, therefore, of the manifest advantages of 8 A.M. as the hour of observation over the previous hour of 10 A.M., the Government of India finally settled that this was to be the hour of the observations for all the current work of the Department, such as for Daily Reports, &c.; while at a few of the oldest established and most satisfactory stations observations at 10 and 16 hours were continued for the purposes of strict comparison with the averages obtained in former years, for scientific discussion, and for the purposes of the Annual India Meteorological Report.

The change, as above stated, came into force on 1st January 1889, and from the point of view of the Bengal Meteorological Department, the new arrangement is a most satisfactory one.

Under the new system, therefore, the stations under the direct control of this Department noted below take observations at 8, 10, and 16 hours, and these observatories are in future to be considered second class:—

Dhubri.	Burdwan.	Durbhanga.
Sibsagar.	Chittagong	False Point.
Silchar.	Cuttack.	Hazaribagh.
Akyab.	Dacca.	Patna.
Berhampore.	Darjeeling.	Saugor Island.

The observatories mentioned below take only one set of observations at 8 A.M., and are considered as third-class observatories:—

Arrah.	Dinagepore.	Noakhally.
Balasore.	Furreedpore.	Nya Doomka.
Bankoora.	Gopalpore.*	Pooree.
Bhagulpore.	Gya.	Purneah.
Bogra.	Jessore.	Rampore Beauleah.
Burrisal.	Julpiguri.	Ranchee.
Buxar.	Krishnagar.	Raneegunge.
Chupra.	Maldah.	Rungpore.
Chybassa.	Midnapore.	Serajgunge.
Coconada.*	Motihari.	Tavoy.
Comilla.	Mymensing.	Tezpore.
Dehree.	Nellore.	

There are also two voluntary stations, Tura and Demagiri, taking only temperature and wind observations at 10 and 16 hours.

Of the second-class observatories, the following are provided with self-registering wind instruments:—

Dhubri,	Darjeeling,
Chittagong,	Hazaribagh,

Saugor Island;

while at the following, seismic or earthquake observations are recorded:—

Sibsagar.	Silchar.

* Under Port Officer.

The solar radiation thermometric observations, which were suspended from 1st January 1888, have been revived from 1st January 1889 in the case of the following second-class stations only under new and improved conditions:—

Dhubri.	Darjeeling.
Sibsagar.	Hazaribagh.

Saugor Island.

Separate instructions for the registration of the readings have been issued by the Meteorological Reporter to the Government of India. Three instruments, one of which has been in use for less than one year, another over two years, and the third over five years, are now being observed at each station. They are placed side by side, and in every way in similar conditions of exposure, and it is hoped that the combined observations of these instruments when compared in sets of three will enable any variations in the amount of solar radiation to be determined with accuracy.

In addition to the stations above shown under the headings of second and third class, which are directly under the control of this office, meteorological observations are received for the purposes of the Daily Weather Report for the Storm Signal Service, &c., of this office from the following observatories:—

Calcutta (Alipore) ...	Under control of the Meteorological Reporter, India.
Cuddalore ...	Madras Ports.
Madras ...	
Masulipatam ...	
Negapatam	
Vizagapatam ...	
Bassein ...	Burmah Ports.
Diamond Island ...	
Moulmein ...	
Rangoon ...	
Galle ..	Ceylon Ports.
Trincomallee ...	

Vizagapatam, which is mentioned in this list, is a voluntary observatory under the direction of Mr. A. V. Nursingrao, who has continued to favour the Department with his observations, which are of a high order of accuracy and which are received with great punctuality. The thanks of the Meteorological Department are therefore again due to Mr. Nursingrao for his continued valuable assistance in connection with the Storm Signal Service.

In addition to the above-mentioned stations from all of which regular meteorological observations, usually consisting of readings of air pressure, of temperature, wind direction and motion, cloud proportion, and rainfall, &c., are submitted, there are in all districts numerous stations which daily record rainfall only, and which send in their reports to this office. There are now no less than 255 of these rainfall-recording stations in the various districts in the Province of Bengal. Two stations were added during the year under review: these were, Sherepore town in Mymensing district and Nagrakatta in Julpiguri.

The number of observatories from which returns were therefore received in the Bengal Meteorological office during the past year has been—

1	First-class meteorological station.
15	Second " " stations.
35	Third " " "
2	Voluntary meteorological observatories
11	Additional meteorological stations for the Storm Signal Service.
255	Fourth-class or rainfall-recording stations.

There have thus been 12 more stations reporting in the past than in the previous year.

By orders of the Government of India the scale of monthly payment to the observers has been arranged in such a manner that they will be remunerated according to the total work of observation performed by them—

	Rs.
I.—To observers for taking 8 A.M. observations and despatching weather telegrams	10
II.—To observers for recording 10 and 16 hours' observations, as well as taking 8 hours' observations and sending daily weather telegrams	18
III.—To observers for taking only 10 and 16 hours' observations ...	12

	Rs.
IV.—Additional payment to observers at certain coast stations who send, as a part of their regular duty, storm telegrams for use in connection with the storm-warning work of the Department	5
V.—Additional payment to observers in charge of automatic wind instruments	4
VI.—Additional payment to observers who take special observations of solar radiation thermometers	3

In addition special grants will be made at the end of each year to those observers who have sent in valuable observations of storms which have passed over the observing stations.

The Department from the 1st of January of this year is therefore under an entirely different constitution both as to the nature of the work done and as to the payment received for such work by the observers.

The work of the Department may perhaps best be reviewed under the following heads:—

(*a*) Work connected with the publishing of Meteorological or Weather Reports, &c., generally and the working of the Storm Signal Service.

(*b*) Inspection of observatories and nature of work done, and any changes made at these observatories.

(*c*) Work of office staff.

Weather reports.

The regular reports which are issued by this Department are—

1st.—Monthly reports of the meteorology of Bengal and Assam which are also illustrated in a few cases with maps drawn by hand representing the actual rainfall, the variation from the normal, and the rainfall expressed as a percentage of the normal fall.

2nd.—Weekly reports of the meteorology of Bengal and Assam, and particularly of the rainfall of Bengal.

Both the monthly and weekly reports have been published regularly throughout the year in the *Calcutta Gazette*. The date of publishing of the monthly reports has been in almost every case that of the second Gazette after the close of the month in question, while each Gazette has dealt with the weather statistics of the week up to and including the Friday previous to its issue.

Two other general reports of the meteorology of Bengal are also prepared—the first is the meteorological summary for the whole year prepared in August for incorporation in the Bengal Administration Report. In the present year this was submitted in the month of September, and it was illustrated by maps showing the actual rainfall of the year, and its percentage variation from the normal. The second general report deals with the meteorology of the monsoon season only. This was prepared as usual, and it appeared in the *Calcutta Gazette* of 16th January 1889. A few copies of maps representing the actual monsoon rainfall, its variation from the normal, and the percentage of the actual rainfall as compared with that of normal years, were also prepared for submission with this report.

The Daily Bengal Report, which is published during the monsoon season, was issued regularly from the 28th of April to the 9th of November, or during a slightly longer period than usual. It dealt with the observations of the same number of stations as usual (*i.e.*, 41), and it was issued to 102 Government officers and to 13 private subscribers.

The Bay of Bengal Daily Weather Report of the Storm Signal Service was issued regularly throughout the year; and, as stated previously, owing to the change in the hour of daily observations from 10 A.M. to 8 A.M., and to the fact that at this earlier hour the telegraph wires are more free from traffic, so that the telegrams can be forwarded much more rapidly, it has been found possible to prepare and issue the report with its accompanying chart very much earlier than formerly. The usual time at which the report is printed and ready for distribution is between 10-30 and 11 A.M., instead of between 3 and 4 P.M. as was the case in former years. This report now contains the observations made at 8 A.M. at 25 stations in India and Burma and at 2 stations (Galle and Trincomallee) in Ceylon. In the latter case the observations are taken at 9-30 A.M., and they consequently cannot be included in the report for the same day, but appear in that of the day following. The report is prepared

and issued mainly to give information as to the state of the weather in the Bay of Bengal and over the surrounding coast areas, and to enable the Storm Signal Service to be worked effectively by the Reporter.

In the previous year the Storm Signal Service worked by this Department had been very largely modified, and the responsibilities of the Department largely increased by the duty of warning the Madras and Burmah Coast Ports being entrusted to it in addition to the duty of warning the Bengal Ports, and particularly Calcutta and its approaches. In the present year there has been no further important change in the system of working of the Storm Signal Service of the Bay of Bengal, except that the observatories at Nellore and Cuddalore have been started from 13th September 1888 and 1st March 1889 respectively. These observatories were under construction last year.

The Madras Government Astronomer, who had previously supplied this Department with the meteorological information from that station, having raised difficulties in the matter of sending in additional observations when called for in order to watch the progress of storms which were known to exist in the Bay of Bengal, and the course of which it was necessary to trace, the matter was reported to the Meteorological Reporter to the Government of India. A departmental observatory was in consequence opened at Madras under the Port Officer with the sanction of the Government of India, with effect from 7th January 1889. The observations recorded in the Bay of Bengal Daily Weather Report are now those taken at this departmental observatory, and the Government Astronomer in charge of the Madras observatory no longer supplies the daily meteorological telegrams to this office.

It should here be mentioned that the Diamond Island Telegraph Service has improved very materially since the widening of the belt of cleared forest through which the line passes, the sanction for which was reported in the last Administration Report. In the present year there has been almost no break in the regularity of the telegrams from this station, and thus one of the standing difficulties in the way of the successful working of the Signal Service in previous years has been removed.

There is, however, another difficulty in connection with the Telegraph Service which demands attention, and that is in the communication with False Point. At present there is only telephonic communication between False Point Light-house at which the meteorological observatory is situated and Hookeytolah on the mainland, and it frequently happens that on the occasion of bad weather or of a cyclone approaching the Orissa coast, the communication is suspended several hours before the storm approaches the land. This at once makes it difficult to determine the line of march and the position of a storm with any degree of certainty. Even also during such months as April and May, when strong southerly winds blow in the north-west angle of the Bay, it is found sometimes to be impossible to send in the daily meteorological telegrams with certainty and regularity, and thus in the first thirteen days in May 1889 on not a single day did the False Point telegram reach this office in time to be incorporated in the Daily Weather Report, and thus for all practical purposes of rapid or early forecasting these observations were useless.

The Orissa coast has been found from experience to be the focus where a large proportion of the storms of the south-west monsoon period forming in the Bay strike, and it would hence be extremely desirable in the interests of the Storm Signal Service that the telegraphic communication over that area should be as perfect as possible. If therefore False Point could be made a regular telegraph station instead of being connected by telephone only, and if a cable could be run connecting it with Hookeytolah, a distance of probably only about 5 or 6 miles, much greater certainty in the receipt of meteorological information from almost the most important observing station on the west coast of the Bay would be ensured, and much greater facility would be obtained in the matter of issuing timely warning to the Orissa ports and to the shipping that lies at anchor in or near the False Point Harbour. The cost of this extension to the Telegraph Department could not be very large, and it would partly be recouped by the income from the Meteorological Department, which alone will almost pay the salary of a signaller who would have to be posted at the Light-house.

In connection with the publication of this Report, and with the working of the Storm Signal Service generally, it may be mentioned that information as to the existence of storms near the Madras coast was issued on ten occasions in the calendar year 1888. On the Bengal and Orissa coasts, the signals were hoisted on eight occasions during storms, and information as to the existence of storms near the Burmah coast was given on five occasions.

No descriptions of the storms of the year will be given here, as these are fully described in the monthly, weekly, and daily reports above referred to, and their history is also summarized in the general report of the meteorology of the year, which will be published in the Bengal Administration Report.

The Bay of Bengal Daily Weather Report was issued during the year to 33 Government officials and to 23 subscribers.

In addition to the above reports, which are regularly published throughout the year, during the year under review a few special reports have been prepared. Two of these were prepared in order to be incorporated in the new edition of the Statistical Account of Bengal, the compilation of which was commenced during the year. It was proposed to give under each division a short account of the normal meteorological conditions peculiar to it, dealing specially with the conditions of rainfall, &c., and giving full statistical information of the principal meteorological elements. During the year reports of the following divisions have thus been submitted:—of the Burdwan Division on the 19th May 1888, and of the Bhagulpore Division on the 3rd September 1888.

A special report was also prepared on the meteorological features, &c., attending the Tornado at Dacca, which occurred on 7th April 1888. The paper was read before and published by the Asiatic Society of Bengal, and it consisted of two parts—the first or meteorological portion contributed by myself, and the second or the full description of the effects of the Tornado, which was contributed by Dr. Crombie, then Civil Surgeon of Dacca.

Inspection of observatories.

Of the 52 observatories under the direct control of this Department, only 18 could be inspected during the year Of the 18, one (Jessore) required to be inspected twice, so that nineteen visits of inspection in all were made as against thirty-four in the previous year. Of these, thirteen were made by myself and six by the Head Clerk of the office. One principal reason of the small number of observatories inspected during the year has been the fact that neither the Meteorological Reporter to the Government of India nor his Assistant has been able to be in Calcutta during the cold season to relieve the Bengal Reporter of his work, so as to enable him to get away on tours of inspection. This has arisen from the fact that the Assistant Meteorological Reporter to the Government of India has been on privilege leave, and hence the India Reporter has had to remain at Simla during the cold-weather months. In succeeding years this difficulty about inspection will be overcome, as an officer has been appointed as Inspector of Observatories for the whole of India, and thus the Bengal Reporter will be partially relieved of this work.

The following were the observatories inspected :—

By myself—

Gya.	Patna.	Chupra.
Dacca.	Bhagulpore.	Krishnagar.
Durbhanga.	Arrah.	Mymensing.
Jessore.	Buxar.	Raneegunge.
	Motihari.	

By my Head Clerk—

Jessore.	Dinagepore.	Rampore Beauleah.
Bogra.	Julpiguri.	Rungpore.

Of these, three belong to the second class, and the remainder to the third class.

Of the observatories inspected, the majority were in good order: the following, however, were exceptions:—

(1) Chupra observatory when inspected was in extremely bad order, and arrangements were made to transfer the observatory to the charge of the Telegraph Department.

(2) Bhagulpore observatory was also in bad order, and arrangements were subsequently made to transfer the post of observer to the Civil Surgeon's clerk.

(3) Rampore Beauleah was also in bad order, and the observatory was transferred to the charge of the Postmaster.

(4) Rungpore observatory was also in bad order, and the charge of the observatory was transferred to the Post and Telegraph Master.

Patna, Jessore, and Mymensing were in fair order only, but no change of observers was necessary.

Of the observatories which were not inspected, most of them submitted their returns regularly and punctually, and the observations were of such a character that they agreed very fairly well with neighbouring stations, so that, so far as can be judged, these observatories generally continue in good order. Only one exception to this fact is known, and that is in the case of Tezpore, where the observations have been utterly untrustworthy. The observer was fined on many occasions, and afterwards his pay suspended altogether for a time, but nothing appeared to have any effect on him, and during the current year the observatory has had to be entirely closed.

It having been found by the Public Works officials in charge of some of the observatories that the new hour of 8 A.M. was inconvenient to the observers, arrangements were made at the close of the official year to transfer the Arrah observatory to the charge of the Telegraph Master and the Motihari observatory to the charge of the Civil Surgeon's clerk.

In the case of Durbhanga and Bankoora also, which were formerly voluntary observatories, under the scheme of the reorganisation of the Department they were converted into regular observatories of the Department, and Durbhanga is now a second-class observatory, where the observer receives Rs. 10 per month, and Bankoora is a third-class observatory, where the observer's pay is Rs. 10.

Beyond the alterations alluded to in the opening portions of this report, no further changes have taken place in the class of work done at the various observatories.

Office staff.

Up till the 1st of January 1889 the constitution of the office and its staff remained practically the same as in former years, but from that date the Bengal Meteorological office has been amalgamated with the India Meteorological office, and the combined office is worked under the supervision of the Head Clerk of the India Meteorological office, Babu Fanindra Mohan Basu. The services of Babu Chandi Charan Chatterjee, the former Head Clerk of the Bengal office, have been well utilised, and he has been appointed as Inspector of Observatories for the whole of India.

Under the efficient supervision of Babu Chandi Charan Chatterjee, and since the 1st of January 1889 under the able management of Babu Fanindra Mohan Basu, the Bengal office establishment, consisting of two clerks, ten tabulators, and one draughtsman, has worked exceedingly well throughout the year, and the work of reduction and tabulation of observations has gone on so smoothly that the numerous reports published by this office have been issued completely and punctually on the dates on which they were due. The work done by the office indeed is extremely hard, and frequently involves late hours and even duty throughout the night, but in all cases the duty has been done willingly and cheerfully.

METEOROLOGICAL OFFICE,
Calcutta, the 25th May 1889.

ALEX. PEDLER, F.C.S.,
Offg. Meteorological Reporter to the Government of Bengal.

DISTRESS IN THE TRIBUTARY MEHALS OF ORISSA.

REVENUE DEPARTMENT.

No. 81T—R, dated Darjeeling, the 14th June 1889.

From—P. NOLAN, Esq., C.S., Secretary to the Government of Bengal, Revenue Dept.,
To—The Commissioner of the Orissa Division.

WITH reference to your letter No. 809, dated the 5th June 1889, I am directed to convey the Lieutenant-Governor's sanction to a grant of Rs. 10,000 (rupees ten thousand) for expenditure on relief purposes in Angul, to be distributed as follows:—

	Rs.
For relief works	3,000
„ gratuitous relief	2,000
„ tuccavi advances	5,000

This sanction has already been communicated to you by my telegram of yesterday's date.

2. His Honour also approves your action in ordering Rs. 1,000 worth of food-grains to be sent to Angul, and authorizing the tehsildar to commence works out of the 10 per cent. grant, and to administer gratuitous relief under the provisions of the Famine Code.

3. I am to request you to furnish further information as to the prospects in Angul. Government is not fully informed as to the crops ordinarily grown in that killa, their seasons, the proportion of each lost last year, and the date at which the reaping of the next crop may be expected to afford relief.

No. 809, dated Camp Pooree, the 5th June 1889.

From—J. A. HOPKINS, Esq., Officiating Superintendent, Tributary Mehals,
To—The Chief Secretary to the Government of Bengal.

IN continuation of this office report No. 129—780T of the 27th ultimo, regarding the condition of the people in the Tributary Mehals of Orissa, I have the honour to submit the following for the orders of Government.

2. As stated in paragraph 30 of the report quoted above, the last autumn crop in Angul was poor, and the cold-weather crops were more or less a failure. In January last, when the Assistant Superintendent visited the State he did not observe any sign of immediate distress amongst the people, but he found that the day labourers, who are chiefly employed in agricultural operations on a system of annual contracts, had, before the expiration of the term of the contract, been in a body thrown out of employ on the ground of want of means on the part of their employers to keep them on, and he apprehended that later on it would be necessary to open relief works, to make tuccavi advances, and to remit or defer the collection of a part of the rent of the estate. The Assistant Superintendent's estimate was partly dependent upon the *mohul* and mango crops which were then in flower, but the latter proved a failure.

3. Matters have hitherto gone on fairly well, notwithstanding the failure of the crops; food-grains have been available, being imported from the neighbouring States, and so long the people have been able to help themselves, but the import of grain is gradually failing, and it is now, I regret to say, there is no doubt that relief operations must be commenced. The tehsildar reports that want of food is felt by the landless classes and the lower classes of cultivators in every village, specially by those living near the head-quarters in the parganas of Purnagur and Taras and a part of Khoma Kalinga, where there was total failure of crop last year.

4. The permission given to the people to collect edible roots, leaves, &c., from the jungles has been of great service to them; but the rains having held off for an unusually long period, the ground has become dry and arid, so that roots have not developed; leaves, fruits, and flowers are scarce; the supply has been almost used up.

5. The tehsildar in charge of the State, who is an officer of local experience, reports that it will be necessary to afford gratuitous relief, and to open relief works, besides constructing the ordinary works from the 10 per cent grant. He thinks that about 3,000 persons would immediately require relief, of whom less than half the number would be fit for work, while the rest, consisting for the most part of children, would require gratuitous relief.

6. In view of the prospective increase of revenue in the course of the settlement now in progress, the amount available for the improvement of the estate out of the annual 10 per cent. grant was estimated at Rs. 3,880; but in consequence of the failure of the crops more rent will, I fear, have to be remitted, and its collection will be delayed; so that after providing for the annual recurring charges no more than Rs. 1,000 will, it is feared, be available for new works in which persons in need of relief might be employed.

7. The tehsildar asks for a relief grant of Rs. 3,000 for works and Rs. 2,000 for gratuitous relief and Rs. 5,000 for tuccavi advances.

8. It is at present difficult to state to what extent relief measures would have to be carried on. Very much will depend upon the state of the weather. If there are seasonable showers of rain much of the present anxiety will disappear, day-labourers will be employed in agricultural operations, the supply of edible jungle produce will be abundant, and there would not be any great need for State relief; but if the rains hold off much longer, the state of things will probably become very serious.

9. Under these circumstances, I request that I may be authorized to advance funds to the extent noted below:—

	Rs.
For relief works	3,000
" gratuitous relief	2,000
" tuccavi advances	5,000

I consider this sum will be required. I can assure the Government that great care will be taken in administering relief; gratuitous relief will not be given to any except those who actually need it, and are under the Famine Relief Code entitled to it; the relief operations will not be continued a day longer than they are needed.

10. I have ordered Rs. 1,000 worth of food-grains to be sent to Angul. Further supplies will be made, if necessary.

11. Enquiries as to the extent to which rent will have to be remitted are being made, and a separate report on the subject will be submitted in due course. I have authorized the tehsildar to commence at once works out of the 10 per cent. grant, and to administer gratuitous relief in extreme cases to those only who under the Famine Code are entitled to it. I trust this will meet with the approval of Government.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 22nd June 1889.

Division	No.	District and date of return.	Rainfall as Sadder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.				
		Western Districts.		
BURDWAN DIVN.	1	Burdwan June 22, '89 Culna ... Cutwa ... Raneegunge ..	3·15 3·06 0·94 5·01	Weather—seasonable. There has been a break in the rains since two days. Cultivation of *aus* paddy going on Standing crops doing fairly well. Price of common rice 16¼ seers per rupee at Burdwan, 14 seers at Culna, 15$\frac{5}{16}$ seers at Cutwa and 14½ seers at Raneegunge.
	2	Bankoora „ 22, '89 Bishenpore ...	7·50 4·22	Weather—seasonable. Ploughing and sowing of rice proceeding. Seedlings coming up well. Cotton is reported to be gathered in Bishenpore with an 8-anna outturn. Common rice selling at 18 seers per rupee at Sudder as well as at Bishenpore.
	3	Birbhum „ 22, '89 Rampur Hât ...	3·26 1·80	Weather—seasonable. All prospects are at present very good. Price of rice as in last week, viz., 14 seers per rupee at Rampore Hât and 13½ seers at Sooree.
	4	Midnapur „ 22, '89	1·50	Good rain throughout the district. There now seems likely to be a break. The rain is stated to have been sufficient for the seedlings and for ploughing. The price of rice has not been materially affected. Prices are— Rs. A. P. Sudder ... 2 9 3 per maund. Contai ... 2 10 0 per maund. Tamluk ... 3 0 0 per maund. Ghatal ... 2 10 0 per maund.
	5	Hooghly „ 22, '89 Serampore .. Jehanabad . Howrah „ 24, '89	1·85 5·91 4·35 6·46	Light and continued rain. Favourable reports are now received as to all crops. *Aus* sowings are backward, but are being pushed on. Price of coarse rice at Sudder and Serampore 12 seers per rupee and at Jehanabad 16 seers. Weather—good rain; bright at intervals. Rain has improved prospects. At Sudder common rice 12 seers per rupee, and cheapest rice 14 seers; at Ulubariya, cheapest rice 13 seers per rupee.
		Central Districts.		
PRESIDENCY DIVN.	6	24-Perghs. June 25, '89	4·95	Weather—hot with abundant rainfall. Jute and rice crops coming up well. Ploughing and sowing proceeding briskly. Prospects excellent.
	7	Nuddea „ 22, '89 Kooshtea ... Meherpur ... Chooadanga ... Ranaghat ...	2·75 3·15 0·82 6·95 4·22	Weather—seasonable. Early rice, indigo and sugarcane looking well. Now that the rain has ceased for a few days, weeding and other field operations are going on.
	8	Khoolna „ 22, '89 Bagirhat . Satkhira .	4·48 5·96 5·57	Weather—seasonable. Prospects very much improved. Land is being prepared. *Aus* sowings going on. Sugarcane is being planted in the Satkhira sub-division.
	9	Jessore „ 22, '89 Jhenidah ... Magura . Narail ... Bongong ...	2·80 2·53 3·04 6·50 3·36	Weather—hot and cloudy with occasional rain. The rainfall of the week, will be beneficial to the standing crops if it is followed by bright sunshine. *Aus* and *amun* sowings are in progress. Price of rice stationary.
	10	Moorshedabad „ 22, '89 Lalbagh ... Kandi ...	0·48 0·46 2·32	Cool fine weather with passing clouds and showers. *Aus dhan* is thriving; *amun dhan* is being sown. Prospects good.
RAJSHAHYE DIVN.	11	Dinagepur „ 22, '89 Thakurgaon ...	6·38 1·38	Weather—close and hot with frequent heavy rain. Prospects of the *bhadoi* crop are fair. More sunshine is wanted now.
	12	Rajshahye „ 22, '89 Nattore ... Nowgong ...	2·35 1·50 1·73	Weather—still close and hot and sometimes cloudy. Sowing of *aus* is almost complete. *Amun* and jute sowings still going on. Rice sells now at 13½ seers per rupee.
	13	Rungpore „ 22, '89 Gaibanda ... Kurigram ... Nilphamari ...	4·28 6·14 1·83 2·95	Weather—unsettled; heavy showers with intervals of sunshine. The *aus* harvest has begun. The planting out of *amun* continues under very favourable weather; jute promises well. Prices show an improved tendency.
	14	Bogra „ 22, '89 Sherpore ... Nowkhilla ...	1·59 1·59 1·64	Weather—cloudy and showery. Preparation for late rice going on apace. Some injury has been done to the *aus* crop in the east of the district by the rapid rise of the rivers. Other crops are growing, but will not be good owing to long drought in the spring. Coarse rice is selling at 15 seers per rupee.
	15	Pubna „ 22, '89	0·78	Weather—close; occasional showers. Prospects of crops in the Serajgunge sub-division are good, and in the Sudder sub-division fair. Area sown with *aus* and *amun* is somewhat below the average.
	16	Darjeeling „ 22, '89	6·07	Weather—misty in the early part of the week. Rain has fallen all over the district. Crops generally doing well. Indian-corn and *bara marwa* thriving. Potatoes progressing favourably. About 8 annas of land cultivated for *haimanti* in Terai. Prospects of jute and *bhadoi* fair.
	17	Julpigoree „ 22, '89	1·80	Weather—cloudy and very close. Sowing of *haimanti* paddy going on. *Bitri* paddy is being cut. Prospects of crops generally good. More rain wanted. Common rice sells at 16 seers per rupee at the Sudder station.
		Eastern Districts.		
DACCA DIVN.	18	Dacca June 22, '89	3·61	Weather—cloudy and rainy. Jute and paddy crops are doing well where sown early. Prospects fair. Fodder is available. No special change in the prices of food-grains.
	19	Furreedpore „ 22, '89	1·19	Weather—seasonable. Harvesting of *joli* paddy nearly finished. Prospect of the crop fair. Paddy sown in low lands partially damaged by the rise of the river. Price of rice stationary.
	20	Backergunge „ 22, '89	6·37	Weather—seasonable. Prospects of crops good.
	21	Mymensingh „ 22, '89	1·37	Weather—hot with occasional rain. Prospects of crops good

Division	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts—concld.		
CHITTAGONG DIVN.	22	Chittagong ...	......	Report not received.
	23	Noakholly „ 22, '89	4·47	Weather—seasonable. *Aus* plants thriving well. Some damage is expected in the low lands at Hatia island, where the *aus* plants are reported to be submerged under tidal water. Lands are being prepared for seedlings of *amun* crop.
	24	Tipperah „ 22, '89	3·10	Weather—cool with rain every day. Jute and paddy doing very well. Prospect of crops generally good.
	25	Chittagong Hill Tracts. „ 21, '89	4·53	Weather—cloudy and rainy throughout the week with occasional sunshine. Cotton and *jum* paddy thriving well. Plough cultivators have commenced ploughing. Rain during last two weeks has considerably improved the condition of the *jum* crops.
		Hill Tipperah „ 22, '89	1·22	Weather—hot and occasionally drizzling. Prospects of *jum* crops good. *Aus* paddy doing well. Price of rice rising—now 12 seers a rupee.
BEHAR.				
PATNA DIVN.	26	Patna June 22, '89 Barh ... Behar ... Dinapur ...	0·56 2·12 1·33 0·88	Weather—hot and cloudy. Sowing of *bhadoi* going on. *Cheena* flourishing. Prices of food-grains almost stationary.
	27	Gya „ 22, '89	2·16	Weather—hot and cloudy. Fields are being ploughed for sowing. *Makai* and *marwa* are being sown.
	28	Shahabad „ 22, '89 Buxar ... Sasseram ... Bhabuah ...	1·36 2·21 2·03 0·80	Weather—very muggy and cloudy. More rain wanted in the Bhabuah and Sudder sub-divisions. Land is being ploughed and sown with *bhadoi* crops Sugarcane doing well. Prices almost stationary, but rising at Bhabuah.
	29	Durbhunga „ 22, '89 Madhubani ... Tajpur ...	0·84 3·43 1·14	Weather—cloudy and occasionally sultry. Sufficient rain has fallen for agricultural purposes *Bhadoi* sowings are being pushed on. Indigo manufacture is about to commence. Common rice is selling at 12½ seers per rupee.
	30	Mozufferpur „ 22, '89 Hajipur ... Sitamarhi ...	1·62 1·52 4·33	Ordinary monsoon weather; cloudy, hot, and muggy. Good rain reported from all police-stations and outposts. *Bhadoi* crops in the south looking well. *Bhadoi* and rice are being sown everywhere where it had not been already sown. *Marwa* is being transplanted.
	31	Sarun „ 22, '89	1·40	Ordinary monsoon weather. Rainfall capricious, but generally sufficient. *Bhadoi* sowings completed. More rain wanted for indigo. Mahai will this year be late.
	32	Chumparun „ 22, '89 Bettiah	5·69 3·18	Weather—seasonable. Sowings of *bhadoi* and *aghani* in progress. Heavy showers during the week have done great good. Prices have fallen slightly.
BHAGULPORE DIVN.	33	Monghyr „ 22, '89 Beguserai ... Jumui ...	1·47 0·88 0·61	Weather—hot and sultry with occasional showers. Sowing of *bhadoi* going on. About 12 annas of the usual area on the whole has been sown. More rain wanted. Prices high and stationary.
	34	Bhagulpore „ 22, '89 Banka ... Madhepurah Soopool	0·82 0·68 1·30 3·83	Weather—seasonable and favourable to the young *bhadoi* crop. Sowings still in progress. Transplanting of early rice and *marwa* has begun in the north. Cessation of rain for a few days would do good. Prices remain high.
	35	Purneah „ 22, '89 Kissengunge ... Arrareah ...	3·79 3·19 4·88	Weather—hot and seasonable. Crops greatly benefited by rain, of which there seems to have been more than enough in Arrareah. Prospects good. Indigo, it is feared, will give a bad outturn owing to drought in the first place and then to excessive wet.
	36	Maldah „ 22, '89 Chanchal ... Shibgunge .. Gajole ...	2·33 1·01 1·62 1·67	The rains have fairly set in. More or less rain throughout the week. Weather sea-onable. *Bhadoi* sowings not yet complete. Sowings of winter rice and *makai* going on. Common rice selling at an average of 13 seers a rupee.
	37	Sonthal Perghs. „ 22, '89 Deoghur ... Godda ... Jamtara . Pakour ... Rajmehal ...	1·94 1·67 0·89 4·00 1·06 3·40	Weather—seasonable. Agricultural operations are progressing satisfactorily. Prices are, however, very high, and show no tendency towards falling. Test relief-works are still going on.
ORISSA.				
ORISSA DIVN.	38	Cuttack June 22, '89	2·83	Weather—cloudy and hot. *Beali* sowing in the Sudder sub-division extended up to 15 annas, in Jajipur 14 annas, and in Kendrapara 10 annas. *Laghu* and *guru sarad* rice sown in the Sudder sub-division up to 12 annas, in Jajipur 14 annas, and in Kendrapara 10 annas. Agricultural stock in the hands of the cultivators reduced. Coarse common rice sells at 13 Calcutta seers per rupee.
	39	Pooree „ 21, '89 Khoorda	2·75 1·34	Weather—seasonable. Ploughing and sowing of *sarad* crop extensively going on. *Beali* or early rice doing well Price of common rice varies from 18 seers 7 chittacks to 11 seers 13 chittacks in the Sudder sub-division, and from 15 seers 1 chittack to 11 seers 13 chittacks in the Khoorda sub-division.
	40	Balasore . „ 22, '89	0·51	Weather— seasonable. Prospects generally good except in portions of the north of the district.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
CHOTA NAGPORE DIVN.	41	Hazaribagh June 22, '89	1·33	Weather—seasonable. Sufficient rain all over the district Lands are being ploughed and prepared for *bhadoi* crops. *Goondli*, *marwa* and paddy are being sown. Sugarcane doing well. Prices stationary.
	42	Lohardugga „ 22, '89 Palamow ...	4·48 1·09	Weather—cool and cloudy. Rain almost throughout the whole district Rain in the sub-division has benefited agricultural operations *Gundli*, *makai* and paddy are being sown. Prices rising in the sub-division.
	43	Singbhoom „ 22, 89	8·25	Plentiful rain during the week. Weather most favourable for agricultural operations Prices stationary.
	44	Manbhoom „ 22, '89 Govindpur	3·64 3 12	Weather—cool and cloudy. All autumn and winter crops are being sown more than 14 annas of sowings finished. Prices stationary.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 25th June 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	RICE, BEST SORT. Present return.	RICE, BEST SORT. Next preceding return.	RICE, BEST SORT. Corresponding return of last year.	RICE, COMMON. Present return.	RICE, COMMON. Next preceding return.	RICE, COMMON. Corresponding return of last year.	JOWAR OR CHOLUM. (Sorghum Vulgare.) Present return.	JOWAR OR CHOLUM. Next preceding return.	JOWAR OR CHOLUM. Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	12 8	12 4	14 8	No sale.		40 0	11 4	11 10	17 4	15 0	14 4	22 8	...	...	...
2	Bankoora ...	13 12	14 0	13 8	17 0	17 0	20 0	14 12	15 0	18 8	17 8	17 8	20 4	..	...	...
3	Beerbhoom ...	15 0	15 0	15 12	.	..	...	12 0	12 0	16 8	13 3	13 0	21 0	...	...	...
4	Midnapore ...	12 0	10 0	13 5	...	...	...	11 0	11 0	18 8	15 8	15 8	25 0	...	..	...
5	Hooghly ...	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0	12 8	12 0	18 0	..	...	...
	Howrah ...	...	.	...	...	...	...	10 0	10 0	13 12	13 12	13 12	18 12	..	..	...
	Central Districts.															
	Calcutta ...	12 11	12 12	13 6	16 1	16 9	22 8	8 11	9 11	11 11	12 10	12 15	17 4	16 13	16 13	21 1
6	24-Pergunnahs	13 5	13 4	14 0	16 0	18 0	21 0	8 0	8 0	8 0	13 4	14 0	19 0		...	...
7	Nuddea ...	14 15	14 15	16 6	No sale	20 0	26 10½	12 0	12 0	14 8	14 2½	14 2½	17 12	...	...	...
8	Khoolna ..	...	...	...	..	...	.	10 12	10 12	19 0	13 0	13 0	21 0	...	...	...
9	Jessore ...	13 4	11 4	16 0	...	...	.	10 8	11 0	15 0	12 12	14 0	21 0	...		...
10	Moorshedabad	14 0	14 8	15 0	..		..	11 0	11 8	16 0	14 0	14 0	22 0	...	..	...
11	Dinagepore	13 0	14 0	15 4	...	21 8	42 11	11 4	13 4	19 4	14 4	15 8	22 4	...	...	...
12	Rajshahye .	13 8	15 0	18 0	19 8	19 8	45 0	10 8	10 8	18 0	12 0	12 0	21 0	...	...	...
13	Rungpore .	14 8	14 8	20 0	..	...	...	10 5	10 8	13 4	14 8	15 3	20 0	...	...	...
14	Bogra .	15 0	13 8	15 12	...	..	...	12 0	12 0	15 12	15 0	15	26 4	...	.	...
15	Pubna .	16 8	15 0	18 12	..	.	.	8	8 0	8 4	12 12	14 4	22 8	...	...	...
16	Darjeeling ..	10 0	10 0	10 0	6 0	6 0	10 0	6 0	6 0	5 0	11 0	11 0	14 0	...	...	...
17	Julpigoree ..	11 0	10 0	13 0	16 0	16 0	20 0	8 0	8 0	14 0	15 0	16 0	20 0	..	...	...
	Eastern Districts.															
18	Dacca ...	13 0	13 0	19 0	26 0	26 0	38 0	11 4	12 0	18 0	13 0	14 0	21 0	...	...	...
19	Furreedpore ...	16 0	16 0	24 0	18 0	18 0	40 0	8 0	8 0	15 0	12 0	12 0	24 0	...	...	...
20	Backergunge ...	...	...	...	...	...	...	11 0	10 8	15 8	12 0	12 4	20 0	...	...	...
21	Mymensingh ...	10 0	11 8	12 0	...	...	...	13 0	13 0	15 0	16 0	16 0	20 0	...	...	...

A In sub-divisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 9 seers 13 chittacks, and Raneegunge 10¾ seers.
B At Rampore Hât retail price of salt 10 seers 2 chittacks per rupee.
C In sub-divisions retail prices of salt per rupee are : – Ghatal 11¼ seers, Tumlook 8 seers, and Contai 10 seers.
D In Serampore and Jehanabad sub-divisions retail price of salt 10 seers per rupee.
E In sub-divisions retail prices of salt per rupee are :—Baraset and Bussirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In sub-divisions retail prices of salt per rupee are :—Kooshtea and Ranaghat 10 seers, Moherpore 10½ seers, and Chooadanga 9 seers.
G In sub-divisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
H In sub divisions retail prices of salt per rupee are : - Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th June 1889.

Indian-corn or Maize (*Zea Mays.*) Present return.	Next preceding return.	Corresponding return of last year.	Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*) Present return.	Next preceding return.	Corresponding return of last year.	Firewood. Present return.	Next preceding return.	Corresponding return of last year.	Salt. Present return.	Next preceding return	Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Next preceding return.	Corresponding return of last year.	Districts.
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
	No sale.		18 8	19 0	23 0	107 0	107 0	120 0	A 9 14½	9 14⅜	10 8	3 11 3	3 11 0	3 10 0	Burdwan.
19 0	19 0	27 0	15 0	16 0	21 0	240 0	280 0	280 0	10 0	10 0	10 8	3 15 0	3 15 0	3 14 6	Bankoora.
...	...	...	..		15 0	160 0	160 0	160 0	B 10 0	10 0	10 0	3 14 0	3 14 0	3 12 0	Beerbhoom.
...	...	...	12 0	14 0	14 0	160 0	160 0	120 0	C 10 4	10 4	10 8	3 14 0	3 11 0	3 12 0	Midnapore.
...	...	..	13 0	13 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	...	...	13 0	12 12	14 0	100 0	100 0	100 0	10 8	10 8	9 0	3 10 6	3 10 6	3 11 0	Howrah.
															Central Districts.
...	..	20 0	15 14	16 8	17 13	100 0	100 0	95 0	10 9	10 8	10 9	3 8 4	3 9 1	3 7 9	Calcutta.
...			16 0	16 0	19 0	100 0	100 0	110 0	E 10 8	10 8	10 8	3 8 6	3 8 6	3 8 0	24-Pergunnahs.
...	...	...	16 0	16 0	20 0	...	...	..	F 9 13	9 2	9 12	3 14 0	3 11 0	4 0 0	Nuddea.
...	...	...	...	...	...	160 0	160 0	160 0	G 9 0	9 0	8 0	4 0 0	1 0 0	4 8 0	Khoolna.
...	.	..	18 0	18 0	22 0	160 0	160 0	.	H 9 2	9 2	10 10	4 0 0	4 0 0	3 12 0	Jessore.
...	..	...	18 0	18 0	20 0	200 0	200 0	200 0	I 9 10	9 0	10 8	3 12 6	3 11 0	3 12 0	Moorshedabad.
...	...	...	18 0	16 12	11 0	160 0	160 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 11 0	Dinagepore.
...	...	...	18 12	18 12	15 13	240 0	240 0	240 0	J 8 13	9 0	9 0	4 1 1	4 2 8	1 0 0	Rajshahye
...	...	...	13 0	13 0	10 10	120 0	120 0	120 0	K 9 6	9 6	10 0	4 1 0	4 4 0	1 0 0	Rungpore.
...	...	...	...	...	...	90 0	90 0	90 0	9 9	9 0	7 14	4 2 8	4 2 8	5 0 0	Bogra.
...	...	...	17 4	17 4	26 4	200 0	200 0	200 0	L 9 2	9 2	10 0	4 1 0	1 1 0	4 0 0	Pubna.
18 0	18 0	20 0	.	...	...	120 0	120 0	120 0	M 8 0	7 0	8 0	...	...	...	Darjeeling
...	.	20 0	11 0	11 0	12 0	128 0	128 0	128 0	N 9 0	9 0	9 0	4 0 0	4 2 0	4 2 0	Julpigoree.
															Eastern Districts.
...	...	...	16 0	16 0	17 0	160 0	160 0	120 0	O 10 0	10 0	8 8	3 15 0	3 15 0	4 4 0	Dacca.
...	...	...	10 0	10 0	...	120 0	120 0	120 0	9 0	9 0	9 0	4 0 0	4 0 0	1 5 0	Furreedpore.
...	...	...	..	...	...	120	120 0	120 0	P 10 0	10 0	10 0	3 15 9	...	3 12 0	Backergunge.
...	...	...	...	16 0	12 0	...	...	.	Q 9 12	9 12	8 8	4 0 0	3 15 0	4 6 0	Mymensingh.

I In sub-divisions retail prices of salt per rupee are :—Lalbagh 10 seers, Kandi 9 seers 11 chittacks, and Jungipore 10 seers.
J In sub-divisions retail prices of salt per rupee are :—Nattore 9¾ seers and Nowgong 9 seers 9 chittacks.
K In sub-divisions retail prices of salt per rupee are :—Kurigram 9 seers, Gaibanda 8 seers.
L At Serajgunge retail price of salt 10 seers per rupee.
M At Silliguri retail price of salt 9 seers per rupee.
N At Fallacutta retail price of salt 8 seers per rupee.
O In sub-divisions retail prices of salt per rupee are :—Manickgunge 9 seers, Munshigunge 8 seers 14 chittacks, and Naraingunge 10 seers.
P In sub-divisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers
Q In sub-divisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.			Jowar or Cholum. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded**	S Ch	S Ch	S Ch	S Ch	S. Ch	S. Ch	S Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch	S. Ch	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ..	11 0	11 0	11 8	.	..	...	9 0	10 0	13 0	12 0	13 8	20 0	.	...	...
23	Noakholly	...	.	..	.	.	...	11 0	12 0	19 0	12 0	13 0	21 0	...	...	...
24	Tipperah	1[illegible] 0	12 0	12 8	.	..	.	13 0	13 0	17 8	14 0	11 0	22 0	..	..	...
25	Chittagong Hill Tracts	..			...	...	..	9 6	9 6	13 14	10 0	10 0	15 4	...	...	...
	Hill Tipperah .	6 0	6 0	8 0		.	.	8 0	8 0	10 0	14 0	14 0	22 0	...	...	..
	BEHAR.															
26	Patna ...	16 0	15 8	19 0	19 0	20 0	28 0	10 0	10 8	11 8	13 8	13 8	20 0	20 8	21 0	-
27	Gya ...	15 8	15 8	17 0	21 0	21 0	24 0	8 4	8 8	11 0	12 8	12 12	16 0	...	...	...
28	Shahabad	14 0	11 0	17 0	20 0	2[illegible] 0	25 0	9 0	8 0	1[illegible] 0	13 0	12 0	16 0		...	...
29	Durbhunga ...	13 11	11 4	16 8	18 4	18 4½	30 0	10 4	10 4½	13 0	12 9½	13 4	19 0	17 2½	11 6½	...
30	Mozufferpore	13 0	13 0	16 0	16 0	16 0	25 0	9 0	9 0	12 0	12 0	12 0	18 0	...	...	...
31	Sarun .	13 12	13 8	17 2	18 8	19 0	24 8	8 8	8 8	9 8	12 2	12 2	19 4	...	...	...
32	Chumparun	14 0	13 0	17 0	17 0	18 0	30 0	7 0	7 0	8 0	11 0	11 0	17 0	...	...	...
33	Monghyr ...	17 5	16 4	17 12	21 0	21 0	27 15	10 8	10 8	13 10	...*	11 9	15 12	...	...	.
34	Bhagulpore	14 8	15 7	18 4	17 10	17 10	25 4	11 6	10 2	15 2	13 4	12 10	17 10	...	...	...
35	Purneah ...	15 0	16 0	20 0	..	...	29 0	12 0	13 0	19 0	14 0	16 0	20 0	...	...	...
36	Maldah .	15 0	15 0	18 0	...	...	...	11 0	10 0	14 0	13 0	14 0	20 0	...	...	...
37	Sonthal Perghs.	12 8	12 2	13	...	..	..	12 0	12 0	16 8	14 0	14 0	20 0	...	...	...
	ORISSA.															
38	Cuttack	10 8	10 8	10 8	...	...	...	10 8	10 8	11 13	13 2	13 2	19 11	...	...	...
39	Pooree ..	10 2	11 13	13 2	...	...	...	11 13	13 6	11 13	14 7	15 12	21 0	...	...	...
40	Balasore	16 0	17 0	15 0	13 0	13 0	13 0	13 0	11 0	13 0	15 0	16 0	26 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency															
41	Hazaribagh ...	12 12	13 0	13 0	16 0	17 0	17 0	8 0	8 0	8 0	13 8	13 8	14 0	Not procurable		
42	Lohardugga ..	(Red 11 8	wheat) 12 [illegible]	12 0	12 8	13 0	..	12 0	11 12	15 0	14 8	ordinary 13 0 coarse 14 0	18 0	...	...	...
43	Singhbhoom ...	10 0	14 0	12 0	11 0	16 0	16 0	16 0	14 0	12 0	20 0	22 0	20 0	...	...	...
44	Manbhoom ...	12 4	12 4	13 5	...	.		13 0	12 0	14 0	17 8	16 4	21 0	...	...	...

* The district return shows common rice at Sudder 14 seers, Beguserai 12 seers 4 chittacks, and Jamui 11 seers 8 chittack. The Sudder figure is doubtful, and hence omitted from the statement

R At Cox's Bazar retail price of salt 5 seers per rupee.

S At Fenny Hat retail price of salt 8 seers per rupee

T In sub-divisions retail prices of salt per rupee are.—Buxar 10 seers, Sasseram 10 seers, and Bhabuah 9½ seers.

U. In sub-divisions retail prices of salt per rupee are.—Madhubani 10 seers and Tajpore 11 seers.

V In Hajipore and Seetamurhi sub-divisions retail price of salt 10 seers per rupee.

CALCUTTA,
The 25th June 1889.

Station Bazars of the Districts of Bengal on the 15th June 1889—(concluded).

Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	*Eastern Districts*—concluded
...	...	...	...	...	...	100 0	100 0	110 0	R 9 0	9 0	9 0	4 0 0	4 0 0	3 14 0	Chittagong.
...	...	...	8 0	8 0	...	...	...	...	S 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
...	...	...	9 0	9 0	10 0	...	...	...	9 0	9 0	8 0	4 4 0	4 4 0	4 10 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	......	......	......	Chittagong Hill Tracts.
...	...	...	8 0	8 0	12 0	...	...	...	8 0	8 0	9 0	4 6 0	4 6 0	4 4 0	Hill Tipperah.
															BEHAR.
19 0	18 0	...	21 0	20 0	28 0	130 0	130 0	110 0	10 0	10 0	9 8	3 12 6	3 12 3	3 12 0	Patna.
...	...	...	17 0	16 0	15 0	200 0	200 0	180 0	9 2	9 2	9 8	4 2 0	4 2 0	4 4 0	Gya.
...	...	...	13 8	13 0	15 0	160 0	160 0	150 0	T 10 0	10 0	10 0	3 15 0	3 15 0	......	Shahabad.
16 0	16 0	30 0	18 13	18 8	24 0	160 0	137 0	160 0	U 11 6	11 6	10 0	3 8 0	3 8 0	3 10 0	Durbhunga.
16 0	16 0	23 0	18 0	18 0	27 0	160 0	160 0	160 0	V 10 0	10 0	10 0	3 12 0	3 12 0	3 12 0	Mozufferpore.
17 4	17 8	23 8	20 0	20 0	27 0	160 0	160 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 6	Sarun.
15 0	15 8	24 0	19 0	17 8	28 0	160 0	160 0	160 0	W 9 8	9 8	9 8	4 1 0	4 1 0	4 0 0	Chumparun.
8 6	9 8	21 0	17 5	16 12	21 2	147 0	147 0	126 0	X 9 8	9 8	10 0	3 12 6	3 13 6	3 12 9	Monghyr.
16 6	16 6	25 4	17 10	17 0	24 0	176 12	176 12	151 8	10 1	10 1	10 1	3 13 0	3 13 0	3 13 0	Bhagulpore.
...	...	...	...	...	21 0	...	...	120 0	Y ...	...	8 8	......	......	4 8 0	Purneah.
...	...	...	...	...	...	120 0	160 0	120 0	9 8	9 0	9 8	4 2 0	4 2 0	4 2 0	Maldah.
16 0	17 0	24 0	19 0	21 0	24 0	200 0	200 0	200 0	9 0	9 0	10 0	4 3 0	4 3 0	3 14 0	Sonthal Perghs.
															ORISSA.
...	...	...	13 2	15 2	15 12	80 0	80 0	80 0	8 0	8 0	9 0	4 7 0	4 7 0	4 7 0	Cuttack.
...	...	...	14 7	14 7	15 12	80 0	80 0	80 0	Z 9 13	10 8	10 8	3 12 0	3 8 0	3 8 0	Pooree.
...	...	...	...	...	...	160 0	160 0	200 0	Z1 9 0	9 8	9 8	4 0 0	4 0 0	4 0 0	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
15 0	14 8	18 0	15 0	15 0	18 0	320 0	320 0	280 0	8 0	8 0	8 0	4 6 6	4 8 0	4 12 0	Hazaribagh.
14 0	16 0	...	big 12 0, small 14 0	big 12 0, small 14 8	small 22 0	170 0	140 0	140 0	7 8	7 8	8 0	5 0 0	5 0 0	......	Lohardugga.
22 0	22 0	...	15 0	16 0	20 0	200 0	200 0	240 0	7 0	7 0	6 8	5 8 0	5 8 0	5 12 0	Singbhoom.
25 0	25 0	28 0	15 0	15 0	22 0	200 0	200 0	200 0	Z2 9 0	9 0	8 0	4 2 6	4 2 0	4 6 0	Manbhoom.

W At Bettiah retail price of salt 9¾ seers per rupee.
X In sub-divisions retail prices of salt per rupee are :—Beguserai 9½ seers and Jamui 9 seers.
Y Retail price of salt at Kusba 9 seers and Kishongunge 8 seers per rupee.
Z At Khoorda retail price of salt 9 seers per rupee.
Z1 At Bhudruck retail price of salt 9 seers per rupee.
Z2 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	Wheat.			Barley.			Rice, best sort.			Rice, common.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 14 2	2 13 11	2 11 10	2 3 10	2 2 7	1 8 8	4 5 6	4 2 11	3 2 7	2 14 7	2 13 2	2 1 5
2	Serajgunge ...	2 8 0	2 8 0	2 0 0	...	...	...	4 3 0	4 0 0	3 1 0	3 4 0	2 14 0	1 14 0
3	Dacca ...	3 0 0	3 0 0	2 0 0	1 8 0	1 8 0	1 0 0	3 8 0	3 4 0	2 2 0	3 1 0	2 12 0	1 14 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	2 0 0	2 12 0	2 12 0	1 12 0
5	Chittagong ...	3 9 0	3 9 0	3 6 0	...	...	...	4 8 0	4 0 0	2 14 0	3 4 0	2 10 0	1 14 0
6	Patna ...	2 7 0	2 8 0	2 0 0	2 1 0	1 15 0	1 6 0	3 14 0	3 12 0	3 0 0	2 14 0	2 15 0	1 15 0
7	Balasore ...	2 8 0	2 0	2 8 0	3 0 0	3 0 0	3 0 0	3 8 0	3 5 0	3 0 0	2 8 0	2 4 0	1 7 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	2 6 0	2 4 0	1 14 0
9	Cuttack ...	3 10 0	10 0	3 10 0	...	...	...	3 10 0	3 10 0	3 4 0	3 0 0	3 0 0	2 0 0

CALCUTTA;
The 25th June 1889.

in the undermentioned Marts of Bengal during the fortnight ending 15th June 1889.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays*)			ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 6 4	2 5 8	1 12 1	...	...	1 11 11	2 4 4	2 3 0	1 15 10	0 5 6	0 5 6	0 6 2	3 8 4	3 9 1	3 7 9	Calcutta.
2 8 0	3 2 0	2 6 6	...	...	...	...	...	...	...	...	...	4 0 0	3 13 0	3 11 6	Serajgunge.
2 12 0	2 12 0	2 1 0	...	...	...	2 6 0	2 6 0	2 0 0	0 4 0	0 4 0	0 5 0	3 15 0	3 15 0	4 4 0	Dacca.
2 8 0	3 0 0	2 4 0	...	...	...	3 12 0	3 2 0	2 8 0	0 10 0	0 10 0	0 10 0	3 12 0	3 12 0	4 0 0	Naraingunge
3 0 0	4 8 0	2 6 0	...	...	...	...	...	...	0 7 0	0 7 0	0 5 0	4 0 0	4 0 0	3 14 0	Chittagong.
1 12 9	1 14 0	1 6 0	2 1 0	2 3 0	...	1 14 0	1 15 0	1 6 0	0 5 0	0 5 0	0 5 6	3 12 6	3 12 3	3 12 0	Patna.
2 12 0	3 0 0	2 6 0	...	...	...	...	...	...	0 4 6	0 5 0	0 4 0	4 0 0	4 0 0	4 0 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 8 0	3 8 0	Pooree.
2 0 0	2 0 0	2 2 0	...	...	...	3 0 0	2 5 0	2 5 0	0 8 0	0 8 0	0 8 0	7 0	4 7 0	4 7 0	Cuttack.

Published for general information.

P. NOLAN,

Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	STOCK IN HAND AS COMPILED ON—												
	1st week of May 1888.	1st week of June 1888.	1st week of July 1888.	1st week of August 1888	1st week of Sept. 1888.	1st week of Oct. 1888.	1st week of Nov. 1888.	1st week of Dec. 1888.	1st week of Jan. 1889	1st week of Feb. 1889	1st week of Mar. 1889	1st week of April 1889	1st week of May 1889.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds	Mds.
Baliaghatta	9,43,009	8,66,000	7,07,000	6,45,000	5,87 000	3 63,000	3 31,500	3 29 000	3,98,000	7,77,000	12 77,000	12,67 000	12,42,000
Ooltadanga	1,42,900	1,43,300	1,34 400	1,10 400	90,100	78 200	65 600	68 500	76 300	71,400	80,200	87,100	82,200
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghât.	6,73,100	6,49,900	6,17,600	5,90,800	5,60 500	7,14 900	6,97,300	6 51,410	6,49,300	6,96,600	7,08,200	7,64,000	7,54,300
Pathuriaghatta, Posta, and Jorabagan.	4,000	4,000	3,700	4,000	3,000	2,000	3,000	2 500	4,000	3 500	2 000	3,200	3,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,44,700	1,44,500	1,32,800	1,03,400	89,900	1,03,300	95,700	98 100	1,06,600	1,26,600	1,37,400	1,43,100	1,39,000
31 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40 000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50 000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreswar, and Chandernagore.	13,210	15,687	14,455	51,646	34,012	27,945	24,310	22,206	22,530	14,924	20,493	19,792	20,066
Total ...	24,10,910	23,13,387	20,99,955	20,00,246	18,60,412	17,77,345	17,07,310	16,61,706	17,46,630	21,80,024	27,15,293	27,79,192	27,50,466
On Railway premises on both sides of the river.	8,290 (on 4th May 1888)	7,458 (on 4th June 1888)	7,624 (on 4th July 1888)	2 255 (on 4th August 1888)	5,027 (on 4th September 1888)	14 112 (on 4th October 1888)	10,475 (on 3rd Nov. 1888)	7,865 (on 3rd Dec. 1888)	11 491 (on 4th Jan. 1889).	15,074 (on 4th February '89)	6,852 (on 5th Mar. 1889.)	23,414 (on 4th April 1889.)	12,496 (on 4th May 1889.)
On boats unloaded ... By Port Commissioners' returns.	14,021 (1st to 3rd May 1888.)	36,672 (1st to 3rd June 1888)	34,787 (1st to 3rd July 1888)	52,644 (1st to 3rd August 1888)	46,697 (1st to 3rd September 1888)	36,343 (1st to 3rd October 1888)	55,943 (1st to 3rd November 1888.)	41,600 (1st to 3rd Dec. 1888.)	49,005 (2nd to 4th Jan. 1889)	44,921 1st to 3rd February '89)	31,937 (1st to 3rd Mar. 1889)	23 449 (1st to 3rd April 1889)	17,963 (1st to 3rd May 1889.)
On boats unloaded ... By Canal returns	46,728 (1st to 3rd May 1888.)	25,540 (1st to 3rd June 1888.)	28,366 (1st to 3rd July 1888.)	38,091 (1st to 3rd August 1888.)	52 216 (1st to 3rd September 1888)	81,757 (1st to 3rd October 1888.)	70,552 (1st to 3rd Nov. 1888.)	27 665 (1st to 3rd Dec. 1888)	1,24,374 (2nd to 4th Jan. 1889.)	1,43,475 (1st to 3rd February '89.)	80 850 (1st to 3rd Mar. 1889.)	36,713 (1st to 3rd April 1889.)	8,972 (1st to 3rd May 1889.)
Grand Total of Stocks ...	24,79,949	23,83,057	21,72,732	20,93,236	19,64,351	19,09,596	18,44,280	17,38,836	19,31,500	23,83,496	28,34,932	28,62,768	27,89,897
Probable stock available for exportation by sea.	14¼ lakhs	13¼ lakhs	11¼ lakhs.	10¼ lakhs.	9 lakhs	8¼ lakhs.	8 lakhs.	6¾ lakhs.	8¾ lakhs.	13¼ lakhs	17¾ lakhs	18 lakhs	17¼ lakhs.

STATISTICAL DEPARTMENT,
The 24th June 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the *Alipore* Observatory from 16th to 22nd June 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	16th	154·3	3·5	29·415	83·5	93·4	15·4	78·0	79·8	0·970	78·3	85	Calm and variable .	61	0·84	Chiefly cloudy, o, g, t, d, p, <.
,,	17th	119·5	Nil	·457	80·6	83·4	7·2	76·2	78·8	·963	78·1	92	WNW and calm .	51	0·51	Cloudy, o, g, d, p.
,,	18th	142·7	0·6	·553	82·8	87·6	10·4	77·2	79·7	·973	78·4	87	SSE and SE by S ...	94	0·08	Chiefly cloudy o, d, p.
,,	19th	117·7	Nil	·633	80·7	84·9	9·7	75·2	78·7	·957	77·9	91	SW and SSW .	92	2·80	Chiefly cloudy, o, g, d, p, t.
,,	20th	161·0	4·4	·620	84·0	89·4	11·2	78·2	80·8	1·011	79·6	87	SSW and SW ..	110	0·01	Chiefly cloudy, d, t.
,,	21st	150·5	5·8	·611	85·9	90·0	9·8	80·2	81·6	1·022	79·9	83	SW and SSW .	111	Nil	Chiefly cloudy, t, ⁀.
,,	22nd	158·8	8·1	·606	86·7	91·8	11·6	80·2	82·0	1·030	80·1	81	SW and SSW .	123	,,	Chiefly cloudy, o, ⁀.

	Inches.
The mean pressure of the seven days	29·556
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·525
	Hours.
The total number of hours of bright sunshine	22·4
The maximum possible number of hours of sunshine	94·3
	°
The mean temperature of the seven days	83·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office	84·1
The extreme variation of temperature	18·2
The maximum temperature	93·4
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	2
	%
The mean relative humidity	87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	84
	Inches.
The total fall of rain from 16th to 22nd June 1889	4·24
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	3·30
The total fall from 1st January to 22nd June 1889	15·52
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	18·37

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor General's Office.

The hygrometric elements are obtained from Table[illegible] the official tables computed in the Meteorological Office, and based on Regnault's mod[illegible]

The directions and the movement of the wind are [illegible]y's anemograph.

The mouth of the rain-gauge is one foot above th[illegible]

[illegible] g gloomy, t thunder, d drizzling, [illegible] < lightning, [illegible] dew.

Meteorological Report of the Province of Beng

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air Pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree ...	29·580	29·592	—	South-westerly.	320	92·6	16th June	76 6	18th June	89·4	79·6	84·5	—	
		Gopalpore ...	29·570	29·626	+·027	SW	391	94·2	15th ,,	80·8	18th ,,	89·9	82·7	86·8	+0·8	
		False Point ...	29·508	29·590	—·001	Westerly	326	93 0	15th ,,	77·6	15th ,,	90·3	80·1	85·2	—0·6	
	Cuttack	Cuttack ...	29·515	29·596	+·006	Variable	96	97·9	15th ,,	76·8	19th ,,	91·6	79·0	85·3	—2·3	
	Balasore	Balasore ..	29·527	29·586	+·004	SW	152·2	97·5	15th ,,	77·2	18th ,,	91·3	78 9	85 2	0	
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·562	29·588	+·003	South-westerly.	404·6	93·7	15th ,,	77·0	18th ,,	90·1	81 5	85 8	—0·5	
	Midnapore	Midnapore ..	29·435	29·585	0	S	171·8	98·3	15th ,,	76·3	17th ,,	92·2	78·7	85·4	—1·4	
	24-Pergunnahs ... ..., Howrah ... ..., Hooghly	Calcutta ..	29·561	29·583	—·021	South-westerly.	75·4	94·0	15th ,,	75·2	19th ,,	89·0	79·6	83·4	—1·3	
	Burdwan	Burdwan ..	29·470	29·570	—·002	SSE	83·4	96·7	15th ,,	77·9	19th ,,	92 1	79 2	85·7	—1·0	
	Bankoora	Bankoora ...	29·265	29·565	+·014	W	114	100·1	15th ,,	76·1	16th ,,	92 7	78·4	85 6	—1·3	
	Beerbhoom ... ..., West Burdwan	Raneegunge ...	29·241	29·517	+·008	Variable	78·2	101·5	15th ,,	75 9	17th ,,	92·3	78·7	85·5	—1·9	
	Moorshedabad	Berhampore.	29·507	29·574	— 005	Variable	95·6	95·7	15th, 16th June.	76·3	15th ,,	92 4	78 5	85·6	+0·1	
	Nuddea	Krishnaghur..	29·537	29·603	+·015	South-easterly.	130·7	94 8	15th ,,	76·8	19th ,,	90 5	78·2	84 4	—0·5	
	Jessore ... ..., Khoolna	Jessore ...	29·565	29·598	—·004	SE	80·0	92·3	17th ,,	77·4	15th, 19th June.	89 1	78·6	83 9	—1·1	
East Bengal.	Chittagong	Chittagong .	29·562	29·651	—·023	SSE	134·3	88·1	17th, 21st June.	76·0	17th ,,	84 9	77 5	81·2	+0 4	
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ..	29·603	29 615	—·007	Calm & SSE	116 4	91·3	17th June	74·9	15th ,,	86 8	77 5	82 2	—0 4	
	Noakholly	Noakholly ...	29·612	29·656	—	SSE	208 1	89 5	17th ,,	76·8	17th, 20th June.	86 4	78 0	82 2	—	
	Furreedpore	Furreedpore...	29·575	29·615	+·005	Calm & south-easterly.	136	93 0	17th ,,	74·9	15th ,,	88 9	78 0	83·5	+1·1	
	Dacca	Dacca ..	29·588	29·611	—·005	ESE		90·1	15th, 17th June.	76 2	15th ,,	88 5	78·8	83 7	+1·0	
	Tipperah	Commillah ...	29·598	29·634	+ 002	SE	148·8	91·3	17th ,,	75·8	15th ,,	88·2	77 2	82 7	+0·7	
	Mymensingh	Mymensingh .	29·555	29·613	— 010	Variable	145 3	90 3	18th ,,	76 6	5th ,,	88·8	78 2	83 5	+1·5	
[illegible] Bengal.	Bogra	Bogra ..	29 518	29 581	+·010	Variable	114·2	92 8	21st ,,	77 3	15th ,,	89 5	79·0	84 0	+0·9	
	Pubna	Serajgunge ..	29·545	29·592	—·014	SE	100·3	91·6	15th ,,	76 7	15th ,,	89 0	78 4	83 7	+0 9	
	Rajshahye	Rampore Beauleah.	29 511	29·581	+ 014	Variable	159 0	94·3	15th ,,	77·1	15th ,,	90 2	78 8	84 3	0 5	
	Maldah	Maldah ..	29·498	29·579	—	NE	61·0	95·7	16th ,,	77·9	19th ,,	92 9	79 7*	86·8*	—	
	Dinagepore	Dinagepore .	29 465	29·585	+·012	E	119	94 6	15th ,,	76 1	21st ,,	90 5	78 7	84 6	+1·6	
	Rungpore	Rungpore ..	29 490	29 614	+ 003	Variable	77	93 3	18th ,,	75 2	21st ,,	91 5	78 3	84 9	+2·7	
	Julpigoree ... ..., Cooch Behar	Julpigoree ...	29·318	29 603	— 016	E	119 9	92·5	18th ,,	72 8	15th, 18th, 21st June.	90 6	73 4	82 1	+1·1	
	Darjeeling Hill Tracts ...	Darjeeling ...	22 867	—	—·006	North-easterly.	96·0	68 6	18th ,,	56 1	16th ,,	66 2	57 3	61·8	+1·2	
North Behar.	Purneah ... ..., North Bhagulpore ...	Purneah ..	29·449	29·575	+·001	Calm	23·4	94·2	16th ,,	76·9	15th ,,	91·4	78·5	85·1	+1·0	
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ...	29·409	29 575	+·005	ENE	116	96·4	15th, 16th June.	80·8	15th ,,	94 1	81·9	88 0	+2·0	
	Chumparun	Motihari ...	29·351	29·578	+·028	ENE	208	101·8	15th ,,	73·8	16th ,,	94·4	78·3	86·4	+1·4	
	Sarun	Chupra ..	29·368	29·561	+·005	E	84·1	100 8	15th ,,	79·5	19th ,,	95 2	81·3	88·3	+0 8	
	Shahabad	Dehree ..	29·203	29·554	+·013	South-westerly.	206·7	99·4	16th ,,	78 5	19th ,,	96 3	80·9	88·7	+0·9	
		Buxar ..	29·305	29·545	+·001	W	162 0	95·9	21st ,,	78 2	19th ,,	93 3	80·8	87·1	+2·6	
		Arrah ..	29 373	29·560	+·030	Calm	78·6	97·9	15th ,,	79·5	19th ,,	95·0	81 5	88 3	—0 3	
	Gya	Gya ..	29·191	29 568	+·021	Variable	120	97·5	16th, 17th June	79·8	18th, 19th June.	95 3	81 2	88 3	—0·6	
	Patna	Bankipore ..	29·378	29 561	+·005	E	103·2	99·0	15th ,,	79 2	15th, 16th June.	95 1	80 3	87·9	—0·2	
	South Bhagulpore, Monghyr	Bhagulpore ..	29 397	29 559	—·002	Variable	62	95·2	15th ,,	76·0	15th ,,	91 7	79,0	85·4	—0·2	
	Sontha Pergunnahs ...	Doomka .	29 070	29·564	—	Variable	100·3	96·1	15th ,,	77·9	18th ,,	90 8	78·9	84·9	—	
[illegible]	Hazaribagh	Hazaribagh .	27·583	29·572	[illegible]	WNW.	255 5	91·5	16th ,,	71·7	21st ,,	88 2	74·3	81 3	—2 9	
	Lohardugga ... ..., Manbhoom	Ranchee ...	27 462	29·570	+·039	Variable	169·1	89·5	15th, 17th June.	70·9	16th ,,	85 7	73·4	79·6	—3 5	
	[illegible]nghboom	[illegible] ..						[illegible]	15th ,,	74·7	18th ,,	92·0	77·0	84 5		
		[illegible]har ...						97·6	18th ,,	77·5	18th, 21st June.	90·9	79·0	85·0		
								90·7	15th ,,	74·8	15th ,,	[illegible]	[illegible]	[illegible]		
								[illegible]	16th ,,	[illegible]	[illegible], 18th June.	91·8	77·6			

[Fo]r the week ending Friday, the 21st of June 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
85	9·01	2·75		2·09		4·48			[illegible]·20			3·0	Pooree	Pooree	Orissa.
82	5·6	1·14											Gopalpore		
[illegible]	9·1	3·80											False Point		
80	7·7	3·73		2·79		5·40			7·49			3·3	Cuttack	Cuttack	
85	4·3	0·74	2·30	2·20	5·16	4·91	+0·[illegible]	8·52	7·45	+1·07	4·5	2·9	Balasore	Balasore	
85	8·7	5·14	7·08	2·46	8·59	6·15	+2·44	11·61	8·42	+3·19	5·3	3·3	Saugor Island	South-West Midnapore; South 24-Pergunnahs	South-West Bengal.
83	3·7	1·47	3·97	2·78	6·37	[illegible]·68	−0·31	8·89	8·81	+0·08	5·7	3·2	Midnapore	Midnapore	
87	8·6	4·54	5·33	2·62	8·[illegible]	6·98	+1·58	10·61	9·61	+1·00	5·3	3·8	Calcutta	24-Pergunnahs; Howrah; Hooghly	
82	8·3	3·15	2·22	2·1[illegible]	5·94	6·11	−0·17	8·93	8·73	+0·20	4·0	3·4	Burdwan	Burdwan	
83	5·7	7·56	5·98	[illegible]·08	9·81	6·56	+3·25	12·88	8·63	+4·25	4·8	3·9	Bankoora	Bankoora	
85	6·7	5·01	3·4[illegible]	2·80	6·55	6·50	+0·05	10·84	8·48	+2·36	5·0	3·7	Raneegunge	Beerbhoom; West Burdwan	
93	9·4	0·[illegible]	1·59	2·96	4·60	6·28	−1·68	9·47	9·30	+0·0[illegible]	3·8	3·6	Berhampore	Moorshedabad	
88	7·9	2·07	2·38	2·16	8·01	7·18	+0·83	9·55	10·70	−1·15	3·6	3·7	Krishnaghur	Nuddea	
93	8·6	3·57	4·17	3·17	9·11	8·86	+0·25	10·69	12·14	−1·45	5·9	4·2	Jessore	Jessore; Khoolna	
86	8·1	2·10	4·08	8·42	15·01	20·68	−5·64	16·49	25·93	−9·44	5·0	5·4	Chittagong	Chittagong	East Bengal.
				5·28		14·27			18·54			5·6	Demagiri	Chittagong Hill Tracts	
92	9·1	6·87	3·78	4·97	9·87	13·27	−3·40	13·46	17·15	−3·69	5·8	4·9	Barrisal	Backergunge	
88	3·9	5·74	3·01	8·05	14·26	20·42	−6·16	18·66	25·17	−6·51	4·5	4·9	Noakholly	Noakholly	
92	6·7	3·60	3·33	2·69	11·99	8·77	+3·22	14·73	13·10	+1·63	5·0	4·3	Furreedpore	Furreedpore	
90	9·1	4·02	1·43	3·05	14·30	9·17	+5·22	20·02	13·07	+6·95	6·5	4·6	Dacca	Dacca	
85	6·7	2·25	1·76	4·65	10·81	12·50	−1·69	14·08	16·77	−2·69	5·9	4·8	Commillah	Tipperah	
91	8·6	2·05	3·12	4·10	19·64	12·29	+7·65	24·68	17·24	+7·44	5·6	4·6	Mymensingh	Mymensingh	
87	10·0	1·67	1·86	2·84	14·31	8·48	+5·83	16·07	13·04	+3·03	5·3	3·8	Bogra	Bogra	North Bengal.
91	8·6	1·03	1·72	2·61	10·79	8·29	+2·50	14·58	12·12	+2·46	3·0	4·1	Serajgunge	Pubna	
88	4·9	2·42	1·93	2·19	12·32	6·67	+5·65	13·08	10·38	+2·70	4·0	3·2	Rampore Beauleah	Rajshahye	
88	6·0	2·02	1·67	3·53	3·61	7·17	−3·56	4·31	10·00	−5·69	5·0	3·7	Maldah	Maldah	
90	8·1	7·13	3·87	3·83	10·38	8·63	+1·75	11·11	13·02	−1·91	3·8	4·0	Dinagepore	Dinagepore	
87	5·1	6·23		6·28		14·88			22·28		7·5	4·7	Rungpore	Rungpore	
91	5·9	1·70	2·10	8·09	16·50	20·68	−4·18	22·63	29·61	−6·98	5·0	5·5	Julpigoree	Julpigoree; Cooch Behar	
95	8·4	5·08	7·81	9·07	18·56	18·45	+0·11	24·01	25·31	−1·30	7·5	5·4	Darjeeling	Darjeeling Hill Tracts	
88	6·6	4·04	5·27	4·00	12·68	7·64	+5·04	14·68	10·69	+3·99	5·2	3·4	Purneah	Purneah; North Bhagulpore	[No]rth Behar.
			2·49	3·35	3·25	4·85	−1·60	3·91	6·21	−2·30	4·7	2·6	Mozufferpore	Mozufferpore	
84	6·3	0·84	2·69	3·01	4·20	4·95	−0·75	5·72	6·34	−0·62	4·3	2·8	Durbhunga	Durbhunga	
87	7·3	6·50	4·44	2·25	5·29	4·58	+0·71	6·19	5·93	+0·26	4·0	2·4	Motihari	Chumparun	
79	5·9	1·38	1·22	1·90	2·35	3·30	−0·95	3·48	4·39	−0·91	3·0	2·7	Chupra	Sarun	
73	4·0	0·89											Dehree		
74	5·3	2·02	1·29	1·48	3·22	2·21	+1·01	3·57	3·11	+0·46	3·2	2·8	Buxar	Shahabad	
79	6·4	1·36											Arrah		
79	6·0	2·16	0·74	1·59	2·65	3·05	−0·40	2·99	4·42	−1·43	2·9	2·1	Gya	Gya	
70	8·6	1·06	1·61	2·32	2·70	3·41	−0·71	5·05	4·84	+0·21	4·8	2·3	Bankipore	Patna	
89	7·6	1·70	1·18	2·33	3·94	4·10	−0·16	5·57	5·71	−0·14	7·0	2·9	Bhagulpore	South Bhagulpore; Monghyr	
85	5·0	1·94	2·14	3·04	6·11	5·62	+0·49	8·42	8·05	−0·63	4·3	3·6	Doomka	Sonthal Pergunnahs	
84	8·0	1·64		2·69		4·88			6·46			3·6	Hazaribagh	Hazaribagh	
83	8·9	5·01	2·40	2·68	4·39	4·30	+0·09	5·43	6·14	−0·71	4·3	3·7	Ranchi	Lohardugga	
			3·59	2·47	6·01	5·07	+0·94	7·71	6·73	+0·98	5·0	4·0		Manbhoom	
[illegible]	[illegible]	[illegible]	3·94	[illegible]	14·06	5·40	+8·[illegible]	15·[illegible]	7·97	+7·97	7·0	3·9	Chyebassa	Singhboom	
													Sibsagar	Assam	
													Dhubri		